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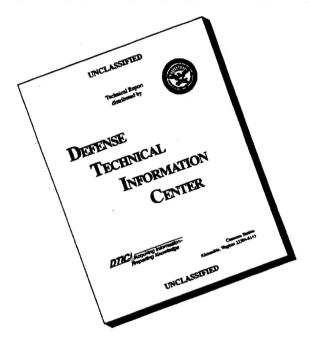
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HYDROGEOLOGIC AND WATER QUALITY CONDITIONS SOUTH TANK FARM PLUME, RMA

Prepared by MK-Environmental Services Denver, Colorado

Prepared for Shell Oil Company Denver, Colorado

May 1990

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1.0 INTRODUCTION

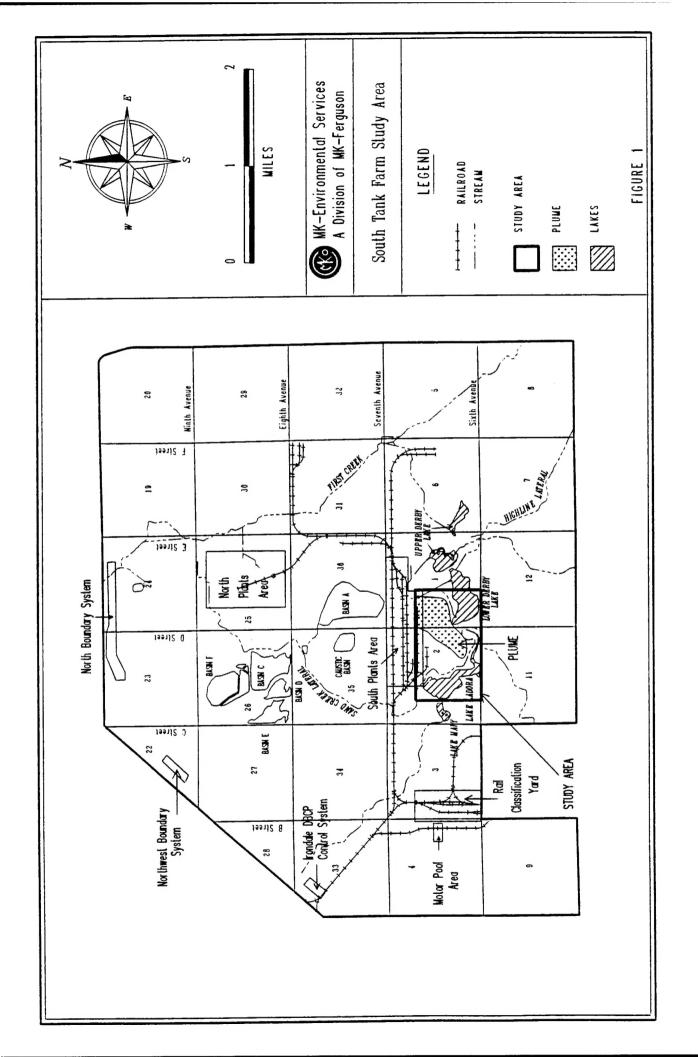
1.1 PURPOSE AND SCOPE

The purpose of this report is to present an updated, more comprehensive characterization of the distribution of contaminants in the South Tank Farm Plume (STFP) for developing and evaluating alternative technologies under the IRA proposed by Shell. In addition to providing the results of the Spring 1990 field investigation, information from previous field and laboratory investigations (i.e., 1988 and 1989) is included to evaluate the significance of biodegradation in controlling the distribution and concentration of STFP contaminants.

The STFP is located in the southern half of Sections 1 and 2 on the RMA (Figure 1). It is defined as the composite plume of benzene, toluene, xylene, bicycloheptadiene (BCHPD), and dicyclopentadiene (DCPD) dissolved in groundwater in the uppermost water-bearing zone (WBZ1) and migrating from a plume of light non-aqueous phase liquid (LNAPL) near Tank 464A toward Lake Ladora and Lower Derby Lake. The constituents of the STFP are those present in the LNAPL plume which is the primary source of the dissolved plume.

The specific objectives of the Spring 1990 field investigation are to determine the present position and concentration of dissolved STFP constituents, evaluate the causes of temporal and spatial variation in contaminant concentrations near the leading edge of the dissolved plume in Section 1, assess the extent to which natural biodegradation may be affecting the present concentration and distribution of contaminants, and monitor potential changes in the water table.

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The tasks conducted to meet the specific objectives of the investigation are outlined below.

 Sampling and analyses of groundwater for dissolved concentrations of benzene, toluene, xylene, BCHPD, and DCPD.

Phase 1: 45 wells located throughout the STFP area.

Phase 2: Sampling of 15 wells located adjacent to the lakes.

- Measurement of dissolved oxygen (DO) in the wells sampled for groundwater quality analyses.
- 3) Sampling and analysis of groundwater from 10 wells (approximately 25% of the total) for concentrations of selected nutrients significant to the growth of bacteria capable of degrading organic contaminants (i.e., nitrogen and phosphorous). Groundwater samples from the 10 wells were also analyzed for copper and nickel (to evaluate the potential for decomposition of hydrogen peroxide typically used in bioremedial systems) and for iron (to evaluate the potential for clogging caused by precipitation of iron minerals). Samples were obtained from wells located in areas of both low and high concentrations of contaminants.
- 4) Collection of water-level elevation measurements in monitoring wells and from staff gages located on the lakes to generate an updated water table map.

1.2 SITE HISTORY

The contaminants within the STFP and LNAPL plume include compounds previously stored in the South Tank Farm and used in the manufacture of pesticides and compounds potentially associated with other production, disposal, and storage activities in the South Plants. Between 1947 and 1978, Tanks 464A, 464B (Figure 2), and other tanks were used intermittently to store DCPD and BCHPD bottoms generated from pesticide manufacturing.

Tanks 464A and 464B were cleaned in 1956, 1966, and 1967. In 1956, BCHPD bottoms were "pumped" onto the ground, and the affected area was later cleaned up. In 1966, residue from a mixture of fuel oil and BCHPD bottoms containing DCPD was buried in the South Tank Farm area. In 1967, a mixture of DCPD bottoms and fuel oil was collected in a low spot in the South Tank Farm and later drummed and shipped offsite. From 1960-1963, leakage of BCHPD/DCPD bottoms occurred from a pipe connected to Tank 464A, although the quantity spilled is unknown. Additional disposal and spill events involving BCHPD and DCPD occurred at unidentified locations in the South Tank Farm in 1964 and 1978, respectively.

Although records do not show that benzene, toluene, or xylene were stored in the South Tank Farm, a large spill of benzene containing toluene and xylene impurities reportedly occurred at an unidentified location in the South Tank Farm in 1948. Toluene may also have been present in trace amounts in BCHPD.

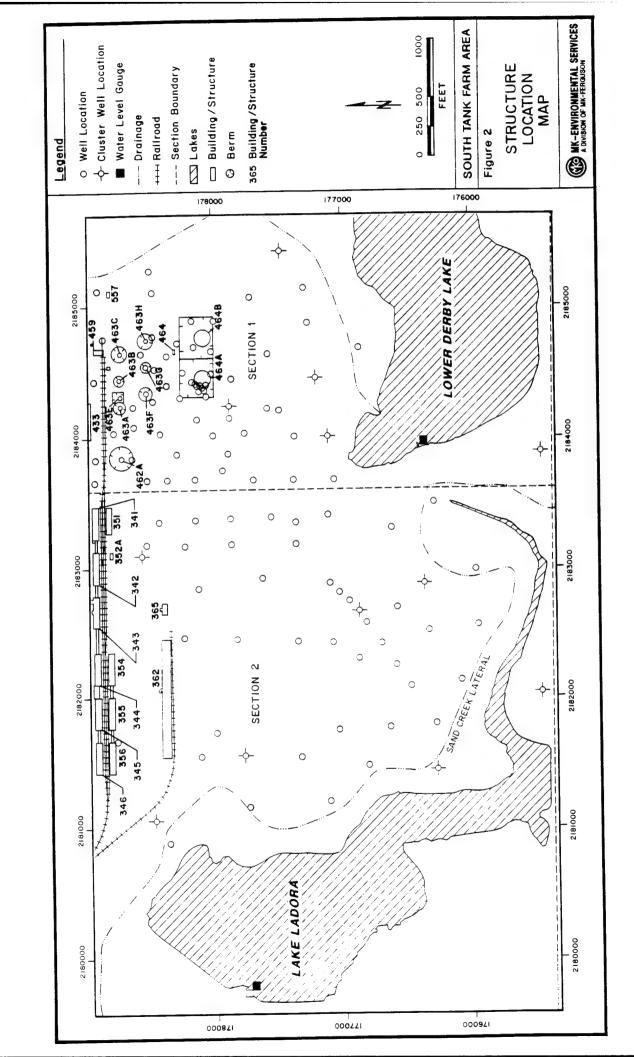
1.3 PREVIOUS REPORTS AND INVESTIGATIONS

Field investigations were conducted between 1979 and 1984 to characterize groundwater quality and the hydrogeologic setting in Sections 1 and 2. These early investigations identified a groundwater contamination plume consisting primarily of benzene, toluene, and xylene extending from the South Tank Farm area southwest toward Lake Ladora and possibly south toward Lower Derby Lake (RMA-PMO database). Monitoring wells were installed by Shell in Section 2 during 1984 to locate the leading edge of the plume. The groundwater sampling procedures utilized during that time period were not documented and may not have been standardized. Therefore, these previous data are not easily comparable to more recent groundwater data except on a qualitative basis.

A comprehensive groundwater sampling program in the South Plants area was conducted in 1988 (Ebasco 1989). Concentrations of contaminants in the STFP (most notably benzene) appeared to have increased by nearly one order of magnitude between 1983/84 (mistakenly referred to as 1982/83 in previous reports) and 1988. However, this apparent increase may actually have reflected differences in sampling procedures between 1983/84 and 1988, incomplete decontamination procedures in 1988 (several rinse blanks contained moderate concentrations of contaminants), or inadvertent entrapment of LNAPL in groundwater samples (the LNAPL plume had not yet been identified).

Shell conducted a groundwater sampling program in the spring of 1989 to better define the hydrogeologic setting and contaminant distribution in Section 2, and determine whether a new IRA should be proposed for the STFP (Shell 1989a). Based on the assumption that the groundwater quality data from 1983/84 and 1989 were

05/24/90



comparable, Shell concluded that the benzene plume, first identified in early eighties, was migrating toward Lake Ladora at a sufficient rate that the plume might migrate into Lake Ladora prior to the implementation of the final remedy.

An investigation was conducted by Shell during the summer of 1989 in the South Tank Farm to investigate the extent and composition of a light, non-aqueous phase liquid (LNAPL) previously detected in a well near Tank 464A. This investigation provided a preliminary characterization of the apparent thickness, composition, and lateral extent of a portion of the LNAPL plume which is believed to be a primary source of the dissolved contaminants which comprise the STFP (Shell 1989b).

Another investigation was conducted by Shell during the fall of 1989 to better define both the leading edge and hydrogeologic setting of the STFP in Sections 1 and 2 and to provide limited information on aquifer hydraulic properties for preparing the Draft Final Alternatives Assessment Document for this IRA. The results of the investigation provided additional knowledge of contaminant distribution near Lower Derby Lake and of the hydraulic setting of the STFP. Information obtained during this field investigation is discussed in this report; water quality data, well logs, and hydraulic properties test data are presented in Appendices B, C, and D, respectively.

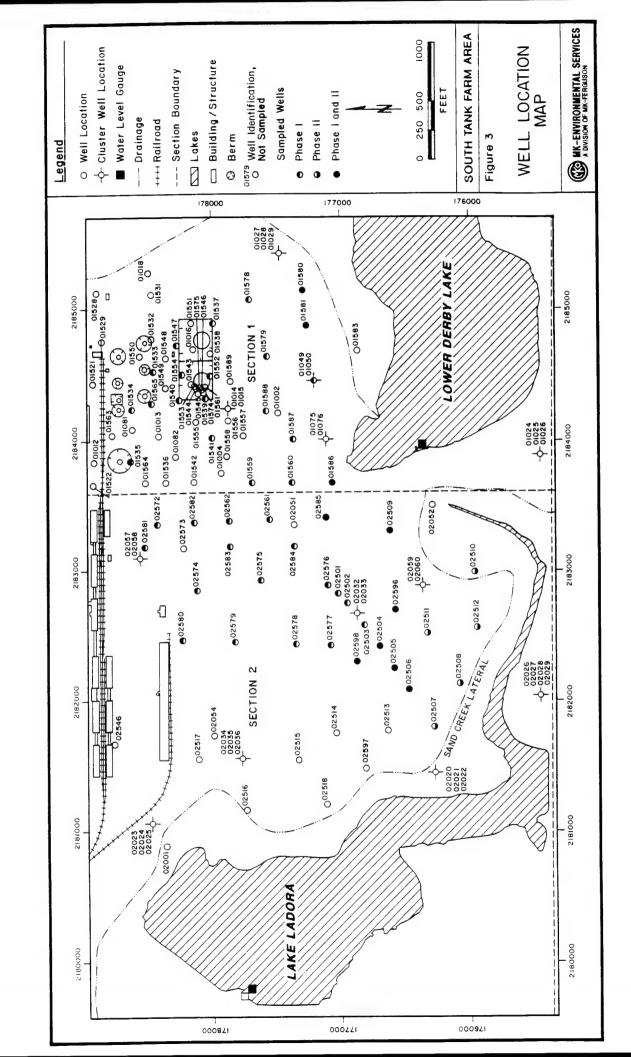
These previous reports have indicated significant variability in concentrations of benzene particularly in wells which define the boundary of the plume. Comparisons of different sets of data have resulted in different interpretations of the migration rate and maximum extent of benzene. The March 1990 investigation was undertaken to evaluate the potential causes for this variability.

2.0 GROUNDWATER SAMPLING AND ANALYSES

During Phase 1, groundwater samples were collected from 45 monitoring wells in the STFP area (Figure 3). Target analytes included compounds associated with the STFP (benzene, toluene, xylene, BCHPD, and DCPD) and selected nutrients (nitrogen and phosphate) and metals (copper, nickel, and iron). During Phase 2, fifteen wells located adjacent to the lakes were sampled (Figure 3). Groundwater samples obtained during Phase 2 were analyzed for benzene, toluene, xylene, BCHPD, and DCPD.

Static water levels were measured and well casing volumes calculated prior to sampling. Sampling procedures followed EPA guidelines and included purging three casing volumes of water from each well using a stainless steel bladder pump. For wells yielding only a small volume of water, a bottom-filling, stainless steel or teflon bailer was used to obtain groundwater samples. During the purging of wells, pH, temperature, and electrical conductivity of the groundwater were measured. Water samples were placed in three 40-ml vials for analysis of volatile organics (USATHAMA Method UU-8), and two 500-ml plastic containers for analysis of selected nutrients (EPA Method 300.0) and metals (EPA Method 610).

Concentrations of dissolved oxygen (DO) were measured using a YSI Model 51B dissolved oxygen meter with temperature compensated electrode. Measurements of DO were taken by placing the electrode on the bottom of a half-gallon sampling bucket which was continuously filled from the bottom using the discharge hose from the bladder pump. This technique helped isolate the sample from the atmosphere until the analysis was completed.



A total of 1 duplicate, 2 rinse blank, 1 field, and 10 trip blank samples were collected during the first phase of the sampling program for field QA/QC data. During the second phase of the resampling program, a total of 1 duplicate, 2 rinse blank, 1 field, and 2 trip blank samples were collected for field QA/QC data. All laboratory QC data were reviewed by RMA-PMO, and all field QC data were reviewed by MK-Environmental Services to verify the quality of the data.

3.0 RESULTS AND INTERPRETATION

3.1 GEOLOGY

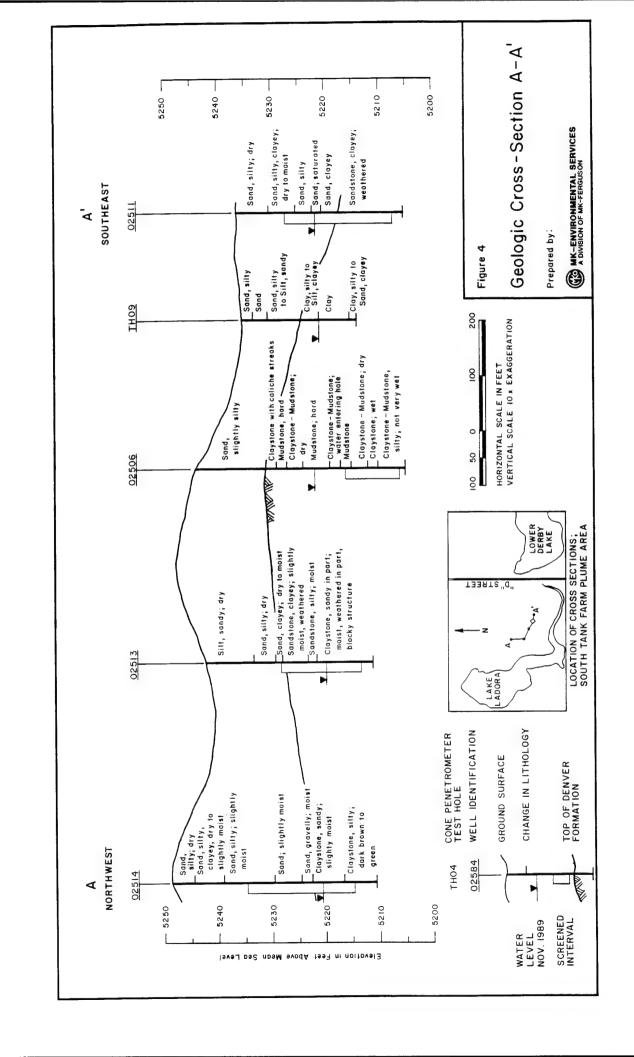
Two geologic units occur in the STFP study area: an upper alluvial unit underlain by the Denver Formation. The alluvium consists of brown, unconsolidated, silty sand with increasing silt and clay content at depth. It ranges from approximately 5 feet thick near the South Tank Farm to 25 feet thick near Lake Ladora.

The alluvium is underlain by brown to green, weathered and unweathered claystones, mudstones, and siltstones of the Denver Formation. These strata are referred to as the VCE and VC in the South Plants Study Area Report (Ebasco 1989). The uppermost 4 to 6 feet of the Denver Formation is weathered and, in places, exhibits narrow joints and fractures. The variability of the subsurface lithology near the leading edge of the STFP near Lake Ladora is shown by the geologic cross-section in Figure 4.

3.2 HYDROLOGY

The STFP is located in the uppermost water-bearing zone (WBZ1) as defined in the South Plants Study Area Report (Ebasco 1989).

WBZ1 comprises saturated sediments in both the alluvial aquifer and the uppermost Denver Formation. The top of WBZ1 is defined by the water table. The base is defined by the transition between weathered and unweathered sediments in the uppermost Denver Formation; it is identified by a green to brown claystone exhibiting a lesser degree of fracturing and weathering (Ebasco 1989, Shell 1989b). In the STFP, WBZ1 ranges in saturated thickness from 10 to 25 feet.



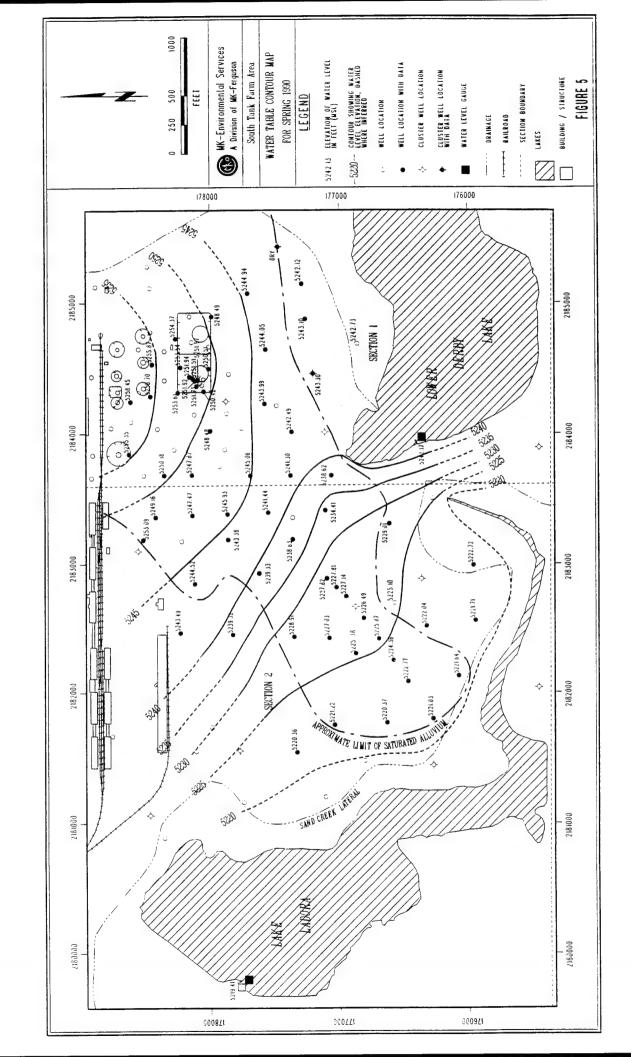
3.2.1 Configuration of the Water Table

The water table occurs in the alluvium in the northwestern and southeastern portions of the study area, and in the weathered Denver Formation immediately southwest of the South Tank Farm and toward Lake Ladora (Figure 5). Groundwater in WBZ1 flows away from the South Tank Farm to the southeast, south, and southwest. The water table surface flattens near the lakes except near the northwest corner of Lower Derby Lake (near Well 01586) where groundwater flowpaths are deflected sharply towards the southwest around the spillway embankment.

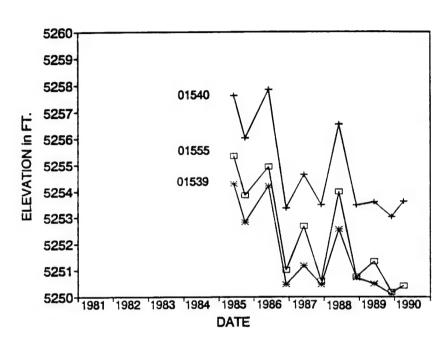
Water levels in the STFP area have declined historically (RMA-PMO database). Since the spring of 1988, water levels near the tank farm have declined up to 5 feet, while water levels in wells near Lake Ladora have declined approximately 1 to 2 feet (Figure 6).

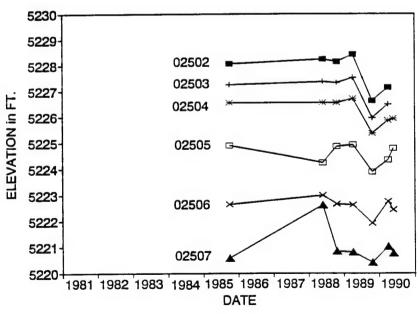
3.2.2 Hydraulic Properties

The hydraulic gradient from the South Tank Farm area to Lake Ladora averages approximately 0.009 ft/ft. Hydraulic conductivity estimates for the weathered Denver Formation were calculated from single-well injection (slug) tests conducted during the fall of 1989 near Lake Ladora and Lower Derby Lake. Slug test data was analyzed using the method of Cooper et al. (1967). The results of the injection tests are summarized in Table 1. Hydraulic conductivity averaged 9.1×10^{-4} cm/sec from seven tests conducted in Wells 02505 and 02598 near Lake Ladora, and 3.7×10^{-4} cm/sec from four tests conducted in Well 01580 near Lower Derby Lake.



HYDROGRAPHS FOR SELECTED WELLS - STFP





3.3 GROUNDWATER QUALITY

The results of groundwater analyses obtained during March, April, and May 1990 are presented in Appendix A. Maps showing the distribution of the target analytes through time are presented in Figures 6 through 17 and discussed in Sections 3.3.2 and 3.4.

3.3.1 Results of Lab and Field QA/QC

3.3.1.1 Phase 1

Field QC sample analyses are included in Appendix A. The field QC sample analyses indicate that the laboratory provided reproducible data, but that the sample collection procedures resulted in potential cross-contamination of some wells. Evaluation of the QC data is provided below.

Analytical results of the trip blanks indicated low concentrations of benzene (4.4 to 5.9 ug/L) associated with samples obtained near Tanks 464A and B. Since groundwater samples near the tanks generally had concentrations of benzene greater than 100,000 ug/L, this amount of contamination in the trip blanks is considered insignificant.

No contaminants were detected in the field blank.

Two rinse blanks were collected after decontaminating sampling equipment used to sample Wells 01535 and 01552. These wells are located in areas of high contamination (60,000 to 80,000 ug/L benzene and 110 to >160 ug/L DCPD). Target analytes detected in the rinse blank from Well 01535 were benzene (500 ug/L) and DCPD (4.7 ug/L). Target analytes detected in the rinse blank from Well 01552 were benzene (200 ug/L), toluene (120 ug/L), xylene

(36 ug/L), BCHPD (6.8 ug/L), and DCPD (110 ug/L). Based on the occurrence of contamination in the rinse blanks, analytical data from wells located near the fringe of the plume (where concentrations of analytes are less than the concentrations detected in the rinse blanks) are not considered valid. Phase 2 sampling was conducted to obtain accurate analyses for these wells.

Additionally, data from Wells 02585, 02509, and 02596 are not considered valid because these wells were sampled immediately following Well 02561 which contained benzene at a concentration of 300,000 ug/L. The concentrations of benzene reported in Wells 02509 and 02596 during 1990 were 400 and 600 ug/L, respectively. Historically, target analytes have never been detected in Wells 02509 and 02596. The concentration of benzene in Well 02585 during 1990 was more than one order of magnitude greater than the concentration reported during the previous sampling event. Therefore, the concentrations of benzene in Wells 02509, 02596, and 02585 probably represent cross-contamination from Well 02561. These three wells were resampled during Phase 2 and the data from Phase 2 are included on the March 1990 contaminant distribution map.

One sample duplicate was collected in Well 02501. Benzene was the only target analyte detected in either the original or duplicate samples for this well. The measured concentrations of benzene were 4000 and 4000 ug/l, respectively. These results indicate that the laboratory provided reproducible data.

3.3.1.2 Phase 2

Field QC sample analyses for Phase 2 are also included in Appendix A. The field QC sample analyses indicated that the laboratory provided reproducible data and that sampling collection procedures were adequate. Evaluation of the QC data is provided below.

One sample duplicate was collected from Well 02505. The concentrations detected in the duplicate sample indicate that the laboratory provided reproducible results.

No analytes were detected in the two trip blanks. Chlorobenzene at a concentration of 4.1 ug/L was detected in the field blank from Well 02504. The source of chlorobenzene is not known but is not considered significant to the interpretation of STFP IRA compounds.

Since wells containing very high concentrations of contaminants were sampled towards the end of Phase 1, the sampling equipment was decontaminated, plastic tubing was replaced, and a rinse blank was obtained prior to sampling any wells during Phase 2 to evaluate potential cross-contamination. Benzene and chlorobenzene were detected at concentrations of 3.6 and 3.5 ug/L, respectively in the rinse blank (02510R). This indicates that wells sampled during Phase 1, after Well 02561, were probably cross-contaminated with very low concentrations of benzene and chlorobenzene resulting in detections in wells that were previously free of these compounds. However, no contaminants were detected in the first five wells sampled during Phase 2 of the sampling program, indicating that residual contamination on the sampling equipment was removed during purging of the well and that cross-contamination was not

significant during the second phase of sampling. These results also suggest that cross-contamination occurred during the 1988 sampling event since sampling and decontamination procedures were identical, and significant rinse blank contamination was documented. Decontamination procedures are being improved to prevent cross-contamination in future sampling programs.

A second rinse blank was collected after decontaminating sampling equipment used to sample Well 02506. Chlorobenzene was detected at a concentration equal to the CRL (2.7 ug/L). Since chlorobenzene was not detected in Well 02506 or in any of the ten previously sampled wells, the source of chlorobenzene contamination is not known and the detection is considered to be invalid.

3.3.2 <u>Inorganic Groundwater Chemistry</u>

Groundwater pH in the STFP area ranges from 7.0 to 8.4 and averages 7.3. Groundwater temperatures range from 48 to $60^{\circ}F$ and average 53° F.

The analytical results for the inorganic constituents are presented in Appendix A. Concentrations of nickel and copper in groundwater samples are generally below the certified reporting limit (CRL). Total copper was detected in three of ten wells sampled at concentrations ranging from 16.0 to 25.2 ug/L. Total nickel was detected in two of the ten sampled wells at concentrations of 13.2 and 19.6 ug/L. Concentrations of total arsenic and mercury are also low, typically at or near the CRL (RMA-PMO database). Total iron was detected at concentrations up to 36 mg/L with a geometric mean of 1.25 mg/L.

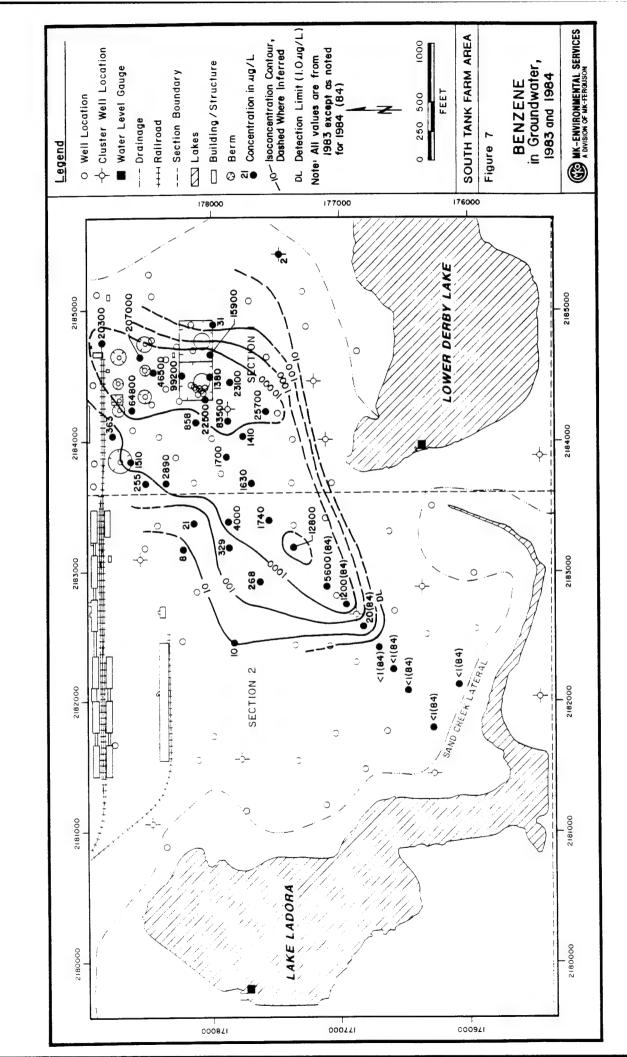
Nutrient content in groundwater in the STFP area is generally low. Phosphate was not detected above the CRL of 1 mg/L in any of the wells. Nitrate ranged in concentration from 0.25 to 47.4 mg/l with an arithmetic mean of 9.3 mg/l. Concentrations of nitrite are typically below the CRL which ranged from 0.25 to 6.25 ug/L.

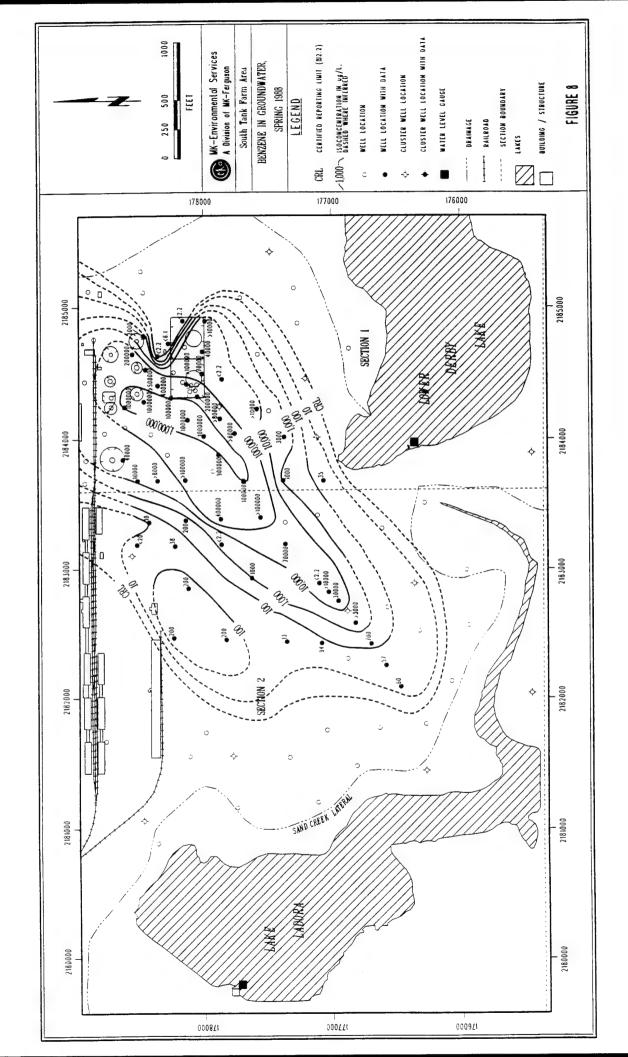
3.3.3 <u>Distribution of STFP Compounds</u>

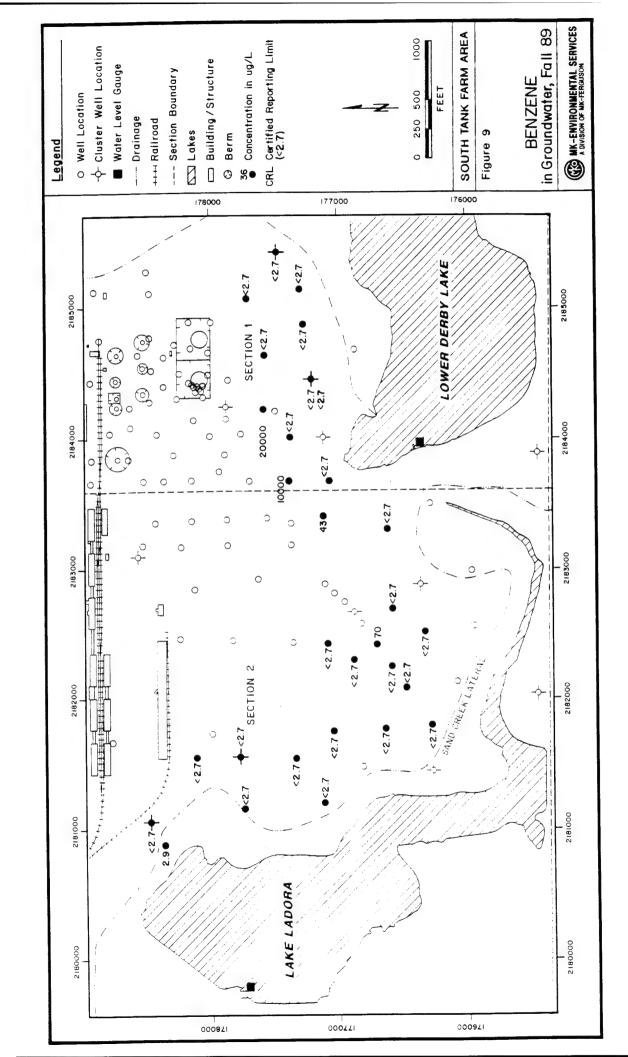
Benzene exhibits the greatest areal distribution of all the STFP compounds, extending from the South Tank area towards Lake Ladora and Lower Derby Lake. The distribution of benzene during 1983/84, 1988, Fall 1989, and Spring 1990 is displayed on Figures 7, 8, 9, and 10. The distribution of benzene during 1990 is discussed below; comparisons between recent and historical distributions are discussed in Section 3.4.

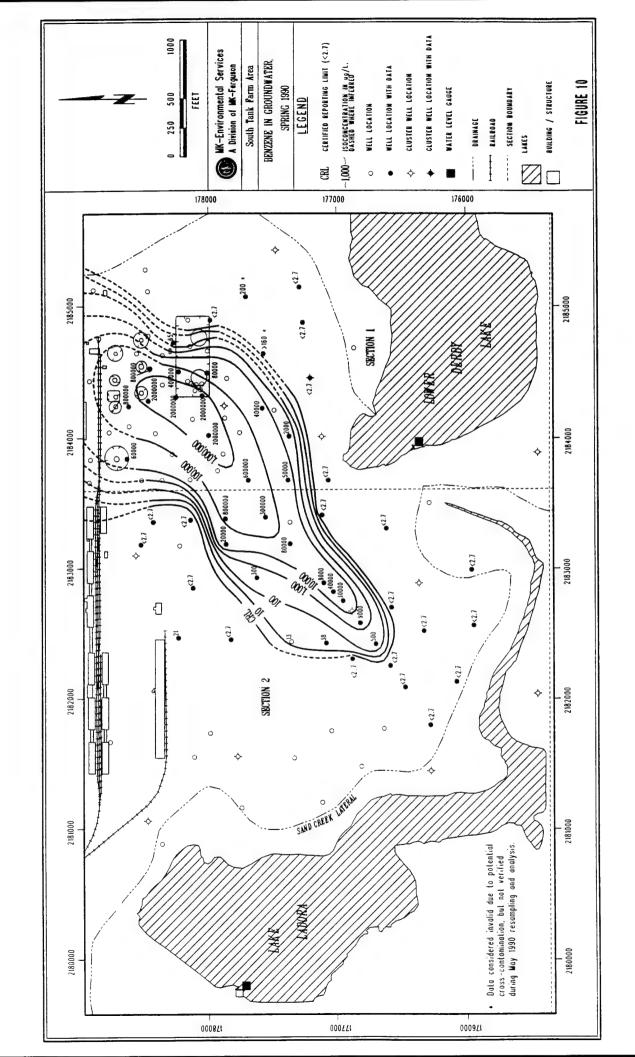
The highest concentrations occur in wells located near or downgradient of Tanks 463F, 463G, and 464A. The concentration of 2000 mg/L reported for 1990 exceeds the solubility limit for benzene and probably indicates the entrapment of LNAPL in the groundwater samples. The maximum extent of benzene during 1990 is based on groundwater quality data obtained during the Phase 2 sampling program since the results of the field QC samples indicated that the data are valid and cross-contamination did not occur during Phase 2. The leading edge of the benzene plume toward Lake Ladora is located slightly downgradient of Well 02504 and slightly upgradient of Well 02505. Benzene has not been detected in any wells located within 500 feet of either Lake Ladora or Lower Derby Lake.

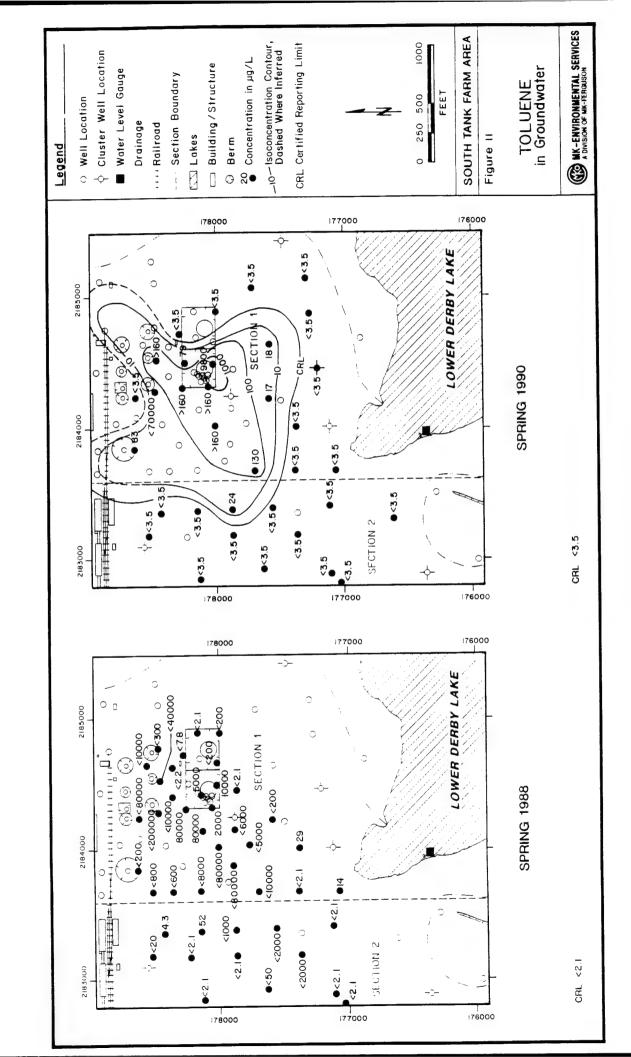
The distributions of toluene, xylene, BCHPD, and DCPD for 1988 and 1990 are shown in Figures 11 through 14, respectively.

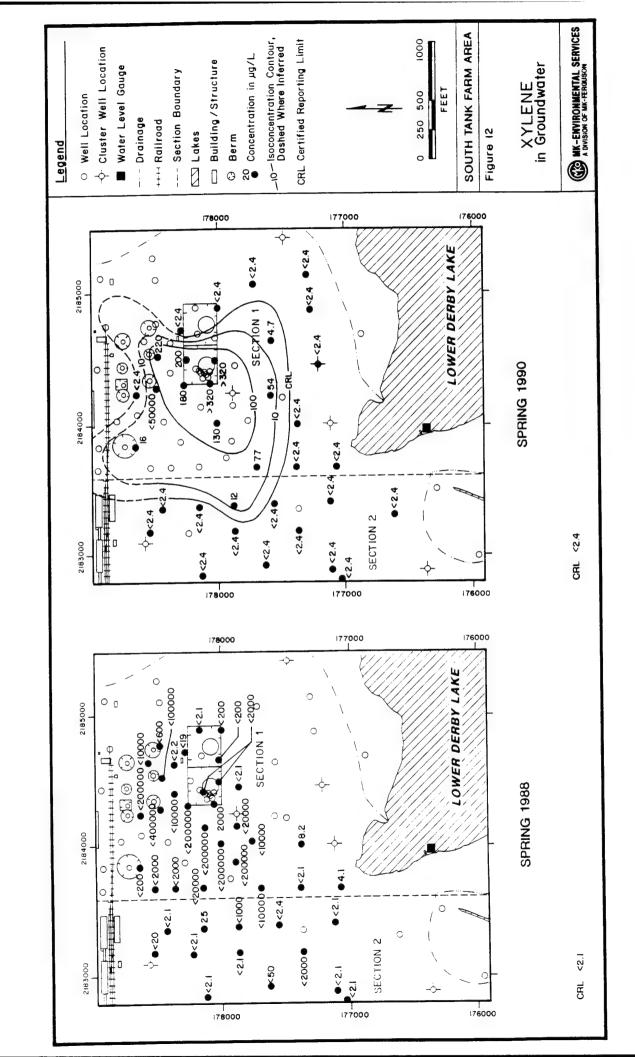


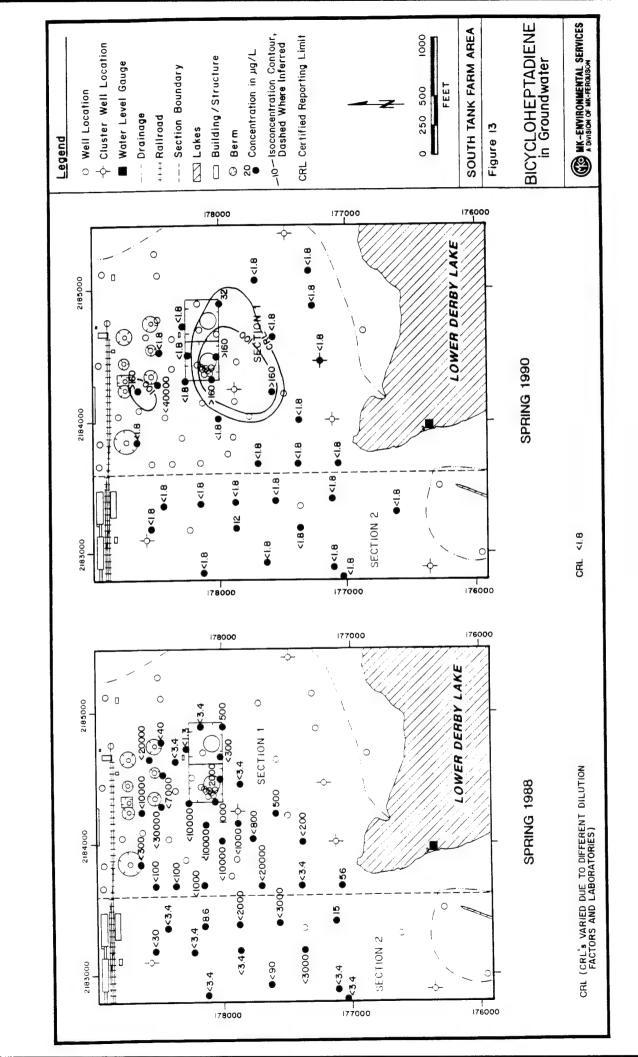


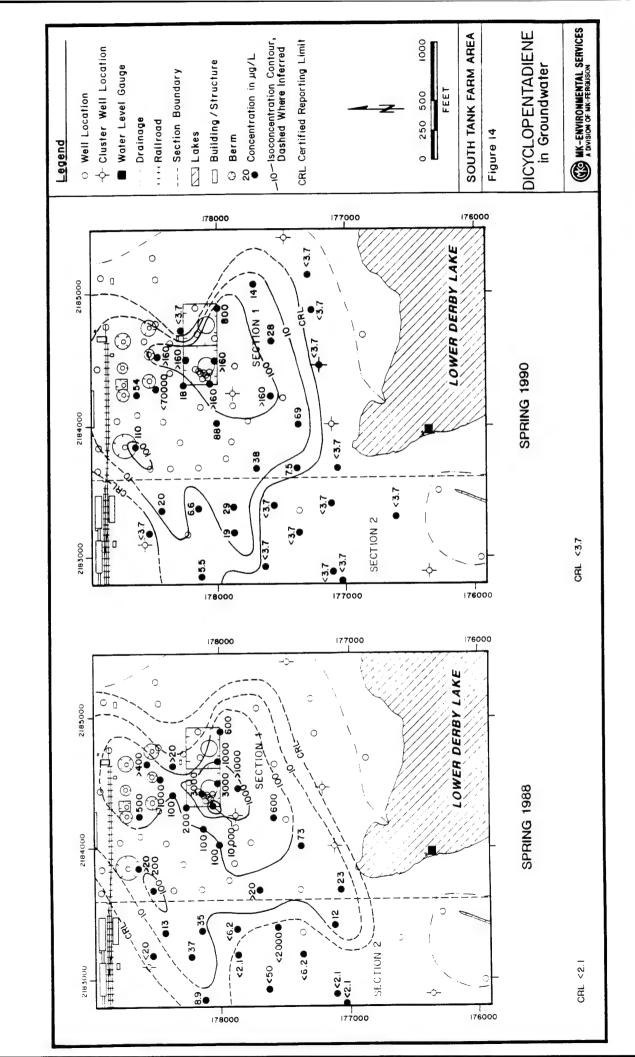


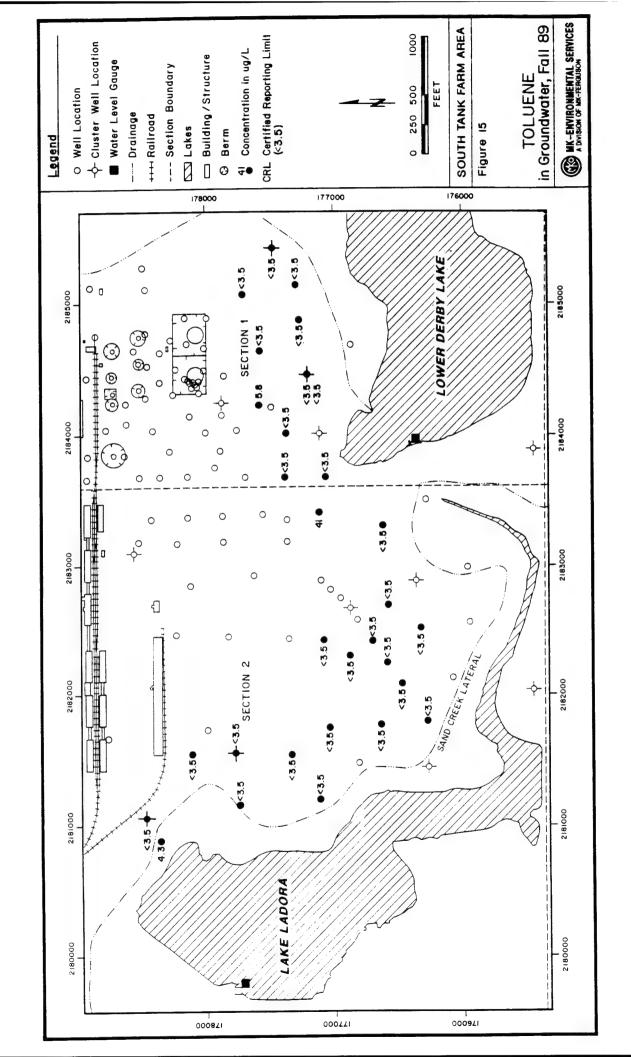


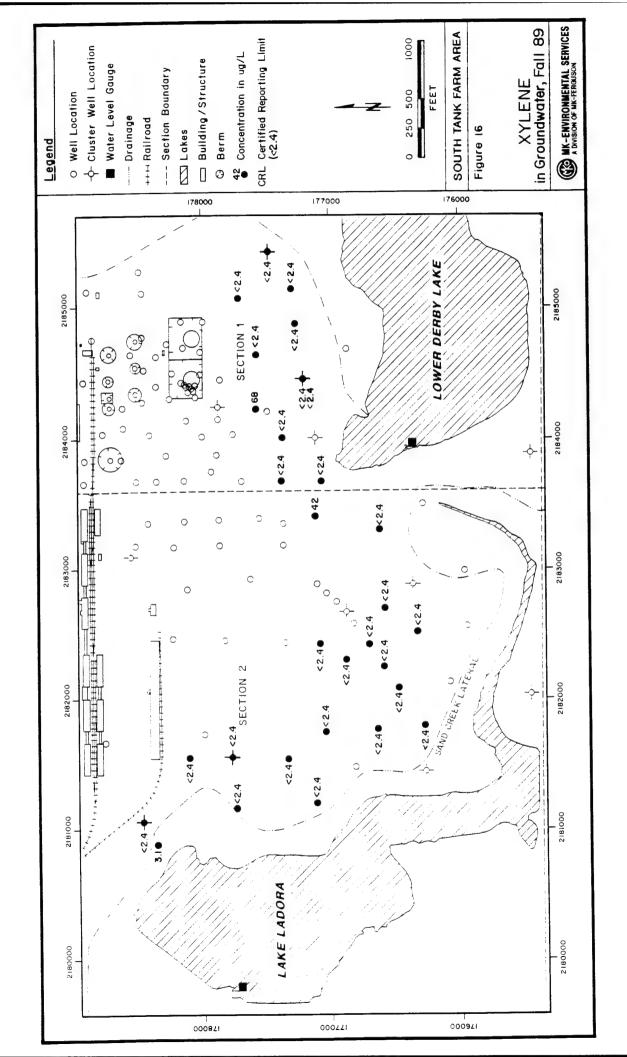


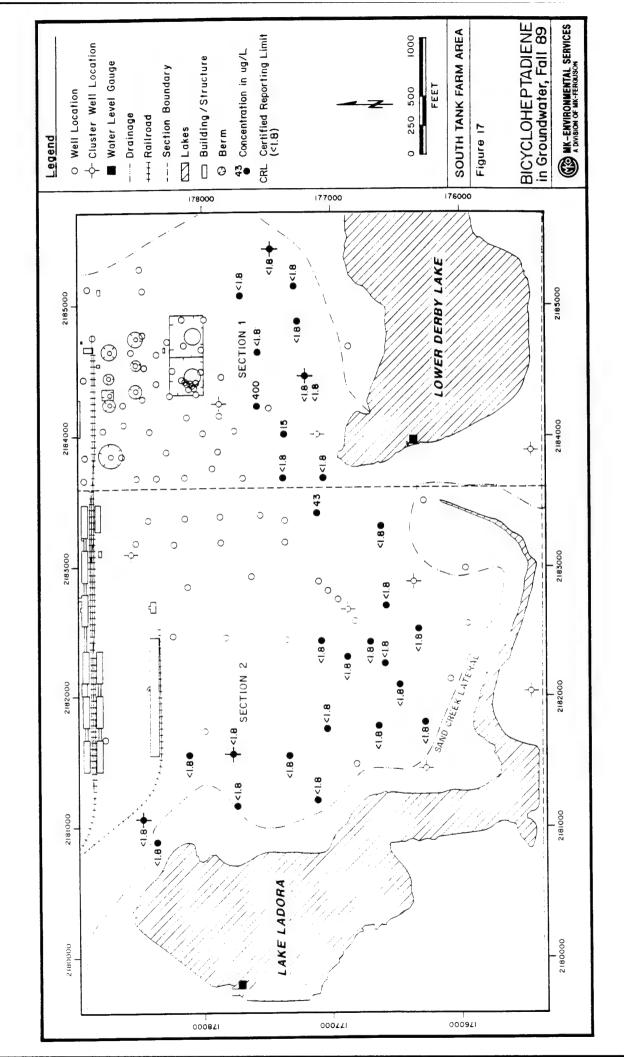


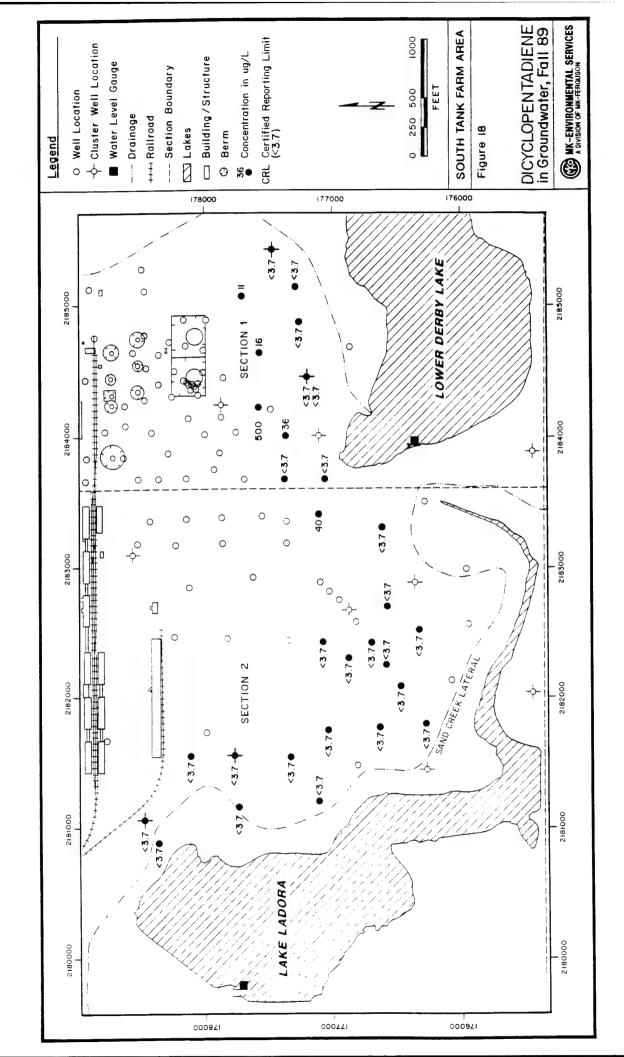












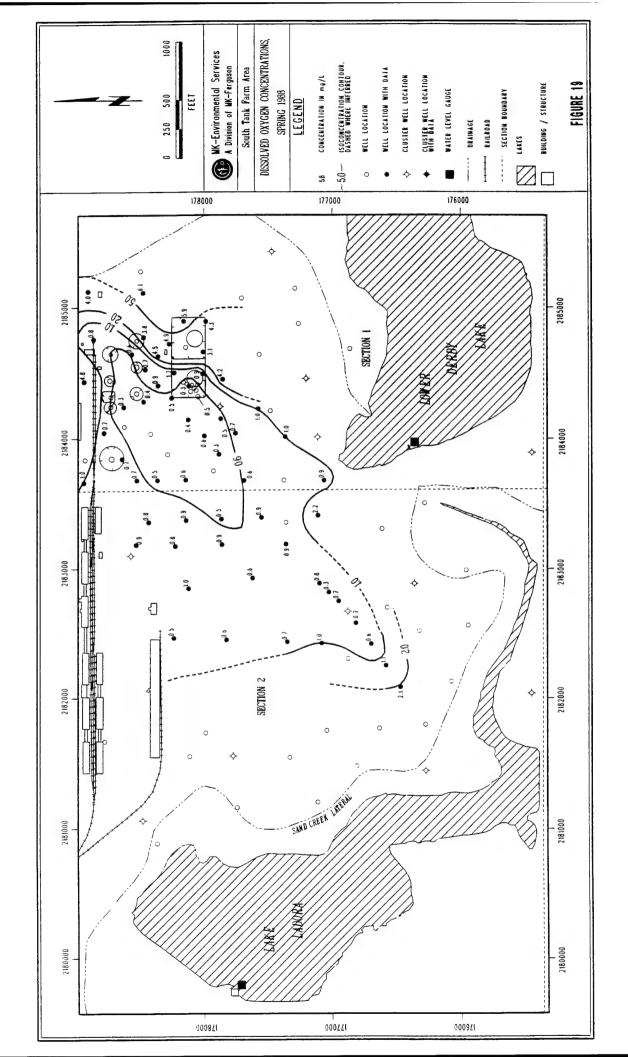
Figures 15 through 18 display the water quality data obtained during 1989 for these compounds. Historically, the highest concentrations of these compounds were detected in wells located near or downgradient of Tanks 462A, 463B, 463F, 463G, 464A and 464B. Data obtained during 1989 and 1990 indicate that none of these compounds were detected in wells located within 500 feet of either lake.

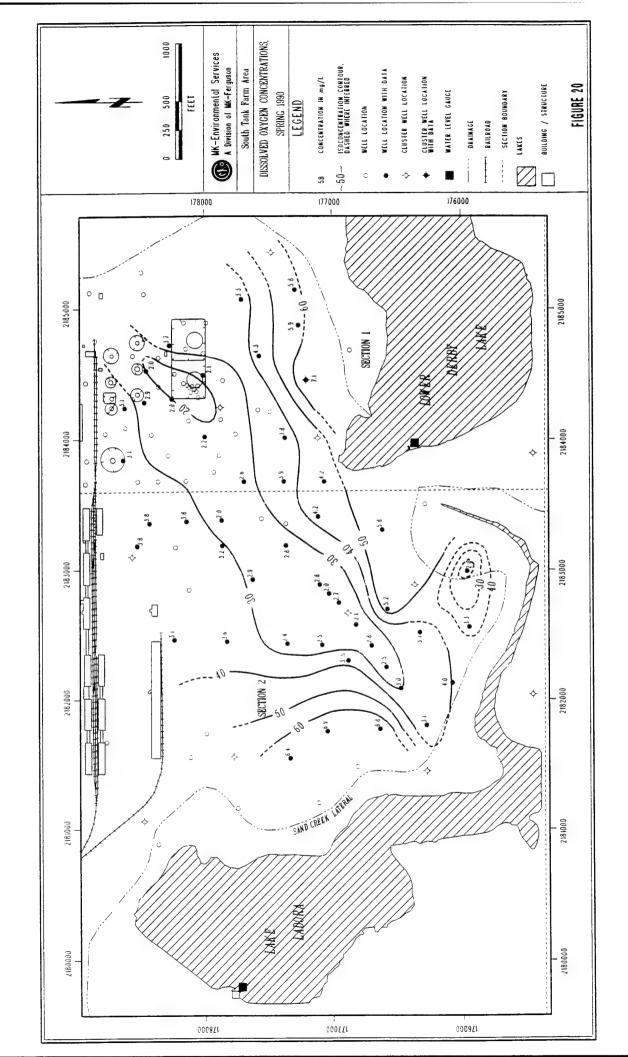
3.3.4 Evidence for Biodegradation

3.3.4.1 Field Evidence

Analytical data for concentrations of benzene, toluene, and xylene (BTX) indicate a narrow configuration of the leading edge of the STFP despite the radial groundwater flow regime and multiple sources that typically result in a wide lobe-shaped plume. Recent field investigations of other hydrocarbon contamination sites documented similar plume configurations and demonstrated that the total amount of benzene, toluene, and xylene in the groundwater was inversely related to the concentration of DO indicating biodegradation of aromatic compounds at higher dissolved oxygen concentrations (Chiang et al. 1989). Transverse mixing of oxygenated groundwater caused biodegradation of contaminants along the sides of the plume, producing a narrow plume configuration (Borden and Bedient 1986, and Twenter et al. 1985).

Concentrations of DO for Spring 1988 and 1990 are shown in Figures 19 and 20 (DO was not measured in 1989). Low values of DO occur where total BTX concentrations are high, while high values of DO occur where total BTX is low. Concentrations of DO measured during 1990 are higher than concentrations measured in 1988 probably due to the infiltration of oxygenated recharge from





precipitation; March 1990 was reported as the second wettest March on record (National Weather Service).

The correlations between total BTX and DO data for each of the two sampling events are shown in Figure 21 and are consistent with data presented by Chiang (1989). The DO level increases significantly at low contaminant concentrations (< 1-3 mg/L) but decreases at high levels of contaminant concentrations (>1-3 mg/L). The inverse correlation between concentrations of DO and total BTX indicate that these aromatic compounds are degraded when dissolved oxygen concentrations exceed 1-3 mg/L. Figure 22 displays this relationship in wells located in a profile oriented parallel to the primary groundwater flow direction towards Lake Ladora.

3.3.4.2 <u>Laboratory Studies</u>

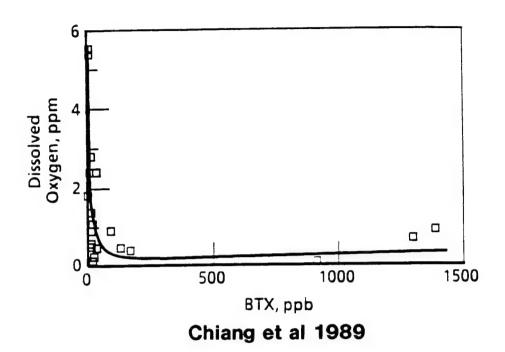
Preliminary biodegradation microcosm studies have been conducted using highly contaminated saturated sediment samples obtained from the STFP area (Shell 1990b). The results indicate that microbial populations capable of degrading BTX and other compounds exist in STFP sediments. Figure 23 shows the effect of DO on the degradation of benzene in the groundwater/soil microcosm study. Benzene degrades in groundwater containing approximately 2 to 8 mg/L of dissolved oxygen. When nutrients are added to groundwater containing 8 mg/L of dissolved oxygen, 60 mg/L of benzene degrades completely in approximately 27 days.

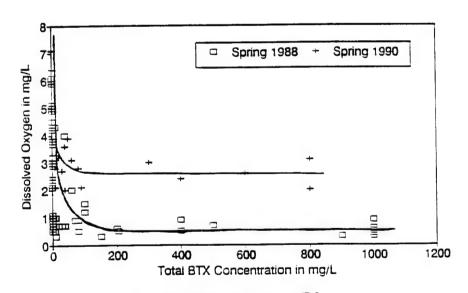
3.3.4.3 Feasibility of In Situ Bioremediation

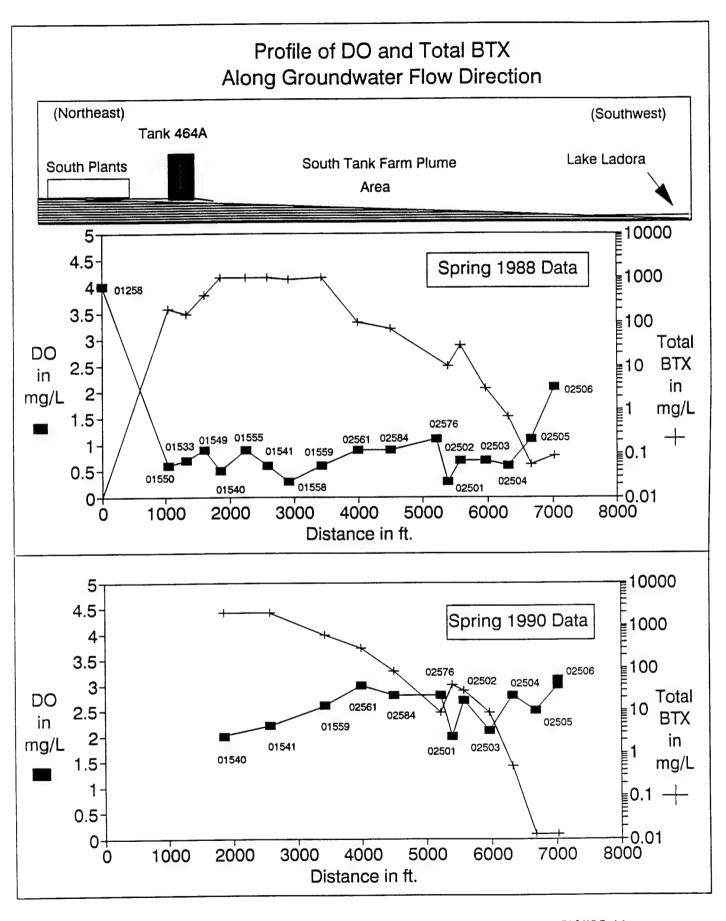
The technical feasibility of in-situ bioremediation of hydrocarbon contamination in groundwater and soils requires

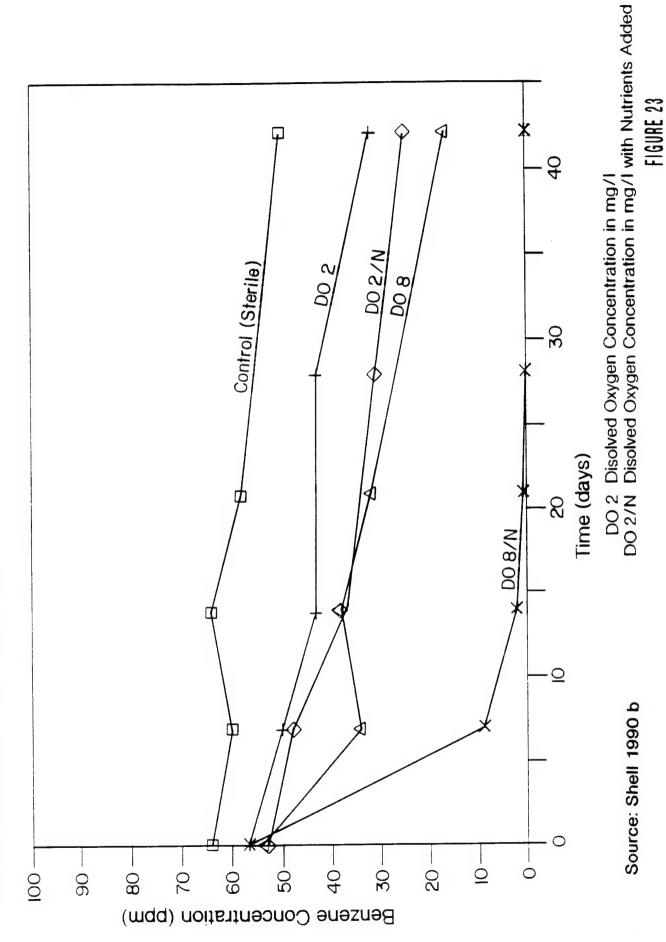
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critical evaluation of the microbial degradation processes, contaminant degradability, aquifer permeability and thickness, and soil and groundwater chemistry. Microbial degradation processes are controlled by the presence of appropriate bacteria and the suitability of the environment for microbial degradation.

Based on screening criteria developed by Brubaker (1989), the pH, temperature, concentrations of heavy metals (arsenic and mercury), and nutrient levels in groundwater in the STFP are suitable for sustaining indigenous populations of bacteria capable of degrading aromatic compounds. Field evidence indicates that natural biodegradation occurs in the STFP. Laboratory studies verify the existence of benzene degrading microbes in STFP sediments and indicate that the degradation rate can be enhanced through the addition of oxygen and possibly nutrients.

Groundwater flow velocities are within acceptable limits for adequately transporting oxygen and nutrients to areas of contamination (Brubaker 1989).

Concentrations of iron, nickel, and copper are relatively low, indicating that catalytic decomposition of hydrogen peroxide may be minimal. Low concentrations of iron indicate a low potential for clogging related to precipitation of iron oxide minerals.

3.4 MIGRATION OF CONTAMINANTS

Conclusions regarding the migration of contaminants are based on comparisons between sets of groundwater quality data for the STFP. Historical groundwater quality data indicate similar plume configurations for toluene, xylene, BCHPD, and DCPD during 1988 and 1990.

Based on the estimated aquifer hydraulic conductivity of 9.1×10^{-4} cm/sec, groundwater gradient of 0.009 ft/ft, and an assumed effective porosity of 0.3, the interstitial groundwater flow velocity in the weathered Denver Formation is estimated to be approximately 28 feet per year. Since the leading edge of these plumes are at least 500 feet from the lakes, these contaminants are not expected to reach the lakes before the final remedy can be implemented.

The distribution and concentrations of benzene for 1983/84, 1988, 1989, and 1990 are illustrated in Figures 7, 8, 9, and 10. Because of the limited sampling conducted during 1989, a plume cannot be contoured; however, the maximum extent of benzene with respect to the lakes can be evaluated. Differences in plume geometries include: (1) greater resolution of the distribution of benzene near Lower Derby Lake in 1989 and 1990, (2) the occurrence of three elevated hits of benzene northwest of the main plume during 1988 and subsequent disappearance in 1990, and (3) variability in the location of the leading edge of the plume as defined by the CRL for benzene.

The small differences in the plume configurations southeast of the tank farm near Lower Derby Lake are an artifact of the addition of new wells (01578, 01579, 01580, and 01581) in 1989, which provided greater resolution of the distribution of contaminants in that area.

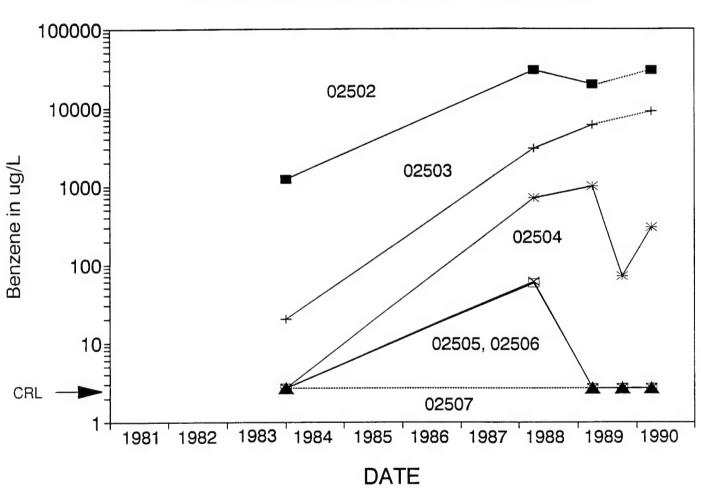
Three hits of benzene at concentrations of 200 ug/L occurred in Wells 02579, 02574, and 02581 on the northwest edge of the STFP in 1988. Prior to 1988, concentrations of benzene in these three wells were one order of magnitude lower. However, since benzene was not detected in any of these three wells during 1990, the

three hits of benzene may represent cross-contamination rather than actual water quality. Alternatively, they may represent an episodic pulse of benzene from a source further up in the South Plants which was later biodegraded.

Figure 24 shows the variability of concentrations over time along the leading edge of the plume (illustrated by Wells 02504, 02505, 02506). The leading edge of the benzene plume appears to have advanced from 1984 to 1988, retreated in 1989, and remained approximately stationary between 1989 and 1990. The reasons for this variability include differences in sampling procedures and variability in the rate of biodegradation as a function of dissolved oxygen. Precise determination of the relative magnitude of each of these factors is not yet possible, although continued standardization of sampling procedures over time should remove this source of variability related to sampling error.

In 1984, the leading edge of the plume was slightly downgradient of Well 02503. Currently, the leading edge of the plume is located slightly downgradient of Well 02504, indicating an advance of approximately 200 ft in 6 years. This observed migration rate of 33 ft/year correlates well with the calculated interstitial groundwater flow velocity of 28 ft/year. Based on these migration rates and the present position of the leading edge of the plume, benzene is not expected to reach the lakes before the final remedy can be implemented.

TIME TREND ANALYSIS FOR CONCENTRATIONS OF BENZENE



4.0 CONCLUSIONS

Except for benzene, the areal distribution of STFP constituents during 1990 is generally consistent with previous reports (Shell 1989b and Shell 1990). Concentrations of benzene exhibit significant temporal and spatial variability, particularly in wells located near the plume margin. This variability is due to sampling methodology and natural biodegradation. Based on the occurrence of rinse blank contamination during the 1988 sampling event and conclusions drawn from the QC samples collected in 1990, cross-contamination of wells probably occurred during the Spring 1988 sampling event resulting in an overestimate of the maximum extent and migration rate of benzene. Recent data indicate that the leading edge of the benzene plume towards Lake Ladora has advanced approximately 200 feet since 1984 to its present position slightly upgradient of Well 02505. Based on the present distribution of the five STFP contaminants with respect to the lakes and the interstitial groundwater flow velocity (or the observed migration rate of benzene), these compounds are not expected to migrate into either lake before the final remedy can be implemented.

Natural biodegradation is occurring in the STFP area and probably contributes to the variability and recent decrease in concentrations of benzene in wells near the margin of the plume. Results of biodegradation experiments in laboratory microcosm studies indicate that microbial populations capable of aerobically degrading aromatic hydrocarbons exist in sediments from the STFP area and that the rate of benzene degradation can be increased with the addition of supplemental oxygen and nutrients. Groundwater quality information indicates that favorable environmental conditions (temperature, pH, concentrations of trace metals and nutrient levels) for these

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microbes exist throughout the STFP area and that natural biodegradation is presently occurring above a threshold value of approximately 1-3 mg/L of dissolved oxygen.

5.0 REFERENCES

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 Response of a finite-diameter well to an instantaneous charge of water. Water Res. Res. vol. 3, no. 1, pp 263-269
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- Shell Oil Company, 1990b. Letter transmitting preliminary SDC laboratory biodegradation data on benzene and chloroform in South Tank Farm Plume aquifer sediments.
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TABLE 1: SUMMARY OF INJECTION TEST RESULTS

Well No.	Hydraulic Conductivity (cm/sec)	Hydraulic Conductivity (m/day)	Saturated Thickness (m)
02505	1.6×10^{-3} 1.6×10^{-3} 8.8×10^{-4} 1.1×10^{-3} 9.4×10^{-4}	1.38 1.38 0.76 0.95 0.81	4.9
02598	4.6×10^{-4} 4.3×10^{-4}	0.40 0.37	4.9
01580	3.7×10^{-4} 4.0×10^{-4} 3.7×10^{-4} 3.4×10^{-4}	0.32 0.35 0.32 0.29	3.3

APPENDIX A

Groundwater Quality Data - Spring 1990

The data presented herein has been forwarded to PMRMA for review, approval, and upload into the RMA Database. The concentration values presented herein are correct for moisture, dilution, accuracy, and number of significant figures. Please note, however, that this data has not been formally approved by PMRMA and is subject to change.

Flagging Code Descriptions:

FC field: (D) duplicate (C) confirmed (R) analyte not certified (U) unconfirmed (G) quantitation questionable QC field: (F) field blank (M) method blank (N) natural matrix spike

(R) rinse blank (S) standard spike (T) trip blank

Pertinent Installation Restoration Data Management System Information: INSTALLATION: RK LABORATORY: ED FILE: CGW PROGRAM: LMK

Site Identification: WELL 01049

Sample Date: 03/30/90

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Lab Number: -STFP#27 Analysis Number: QGA003

Test Name	Corrected	Value	<u>Units</u>	FC	<u>QC</u>	QC	Spike	
111TCE	LT	2.4	UGL					
112TCE	LT	1.6	UGL					
11DCLE	LT	1.4	UGL					
12DCE	LT	3.2	UGL					
12DCLE		0.72	UGL					
13DMB	LT	2.9	UGL					
BCHPD	LT	1.8	UGL					
C6H6	LT	2.7	UGL					
CCL4	LT	4.9	UGL					
CH2CL2	ND	5.0	UGL	R				
CHCL3	LT	1.7	UGL					
CLC6H5	LT	1.8	UGL					
DBCP	LT	5.6	UGL					
DCPD	LT	3.7	UGL					
DMDS	LT	3.7	UGL					
ETC6H5	LT	2.4	UGL					
MEC6H5	LT	3.5	UGL					
MIBK	LT	1.2	UGL					
TCLEE	LT	2.9	UGL					
TRCLE	LT	2.0	UGL					
XYLEN	LT	2.4	UGL					
12DCD4		12.	UGL		N		.0.000	
CD2CL2		11.	UGL		N		.0.000	
ETBD10		11.	UGL		N	1	0.000	

Site Identification: WELL 01533

Sample Date: 04/10/90
Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGG007 Lab Number: -STFP#58

Test							
Name	Corre	cted Value	Units	FC	<u>QC</u>	QC	Spike
111 mc=	T	2 4					
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB		110.	UGL				
BCHPD	LT	1.8	UGL				
C6H6		800000.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	GT	160.	UGL				
DMDS	LT	3.7	UGL				
ETC6H5		65.	UGL				
MEC6H5	GT	160.	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN		220.	UGL				
12DCD4	LT	2.6	UGL		N	1	0.00
CD2CL2	LT	5.2	UGL		N		0.000
ETBD10		11.	UGL		N		0.000
					-1	_	

Site Identification: WELL 01534

Sample Date: 04/10/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGG008 Lab Number: -ST Lab Number: -STFP#59

Test									
Name	Corre	cted	Value	Units	FC	QC	QC	Spike	
111TCE	LT		2.4	UGL					
112TCE	LT		1.6	UGL					
11DCLE	LT		1.4	UGL					
12DCE	LT		3.2	UGL					
12DCLE	LT	(7.72	UGL					
13DMB	LT	,	2.9	UGL					
BCHPD	GT	1	60.	UGL					
C6H6		8000		UGL					
CCL4	LT		4.9	UGL					
CH2CL2	ND		5.0	UGL	R				
CHCL3	GT	1	60.	UGL	•				
CLC6H5	GT	1	60.	UGL					
DBCP			6.0	UGL					
DCPD			54.	UGL					
DMDS	LT		3.7	UGL					
ETC6H5	LT		2.4	UGL					
MEC6H5	LT		3.5	UGL					
MIBK	LT		1.2	UGL					
TCLEE			24.	UGL					
TRCLE	LT		2.0	UGL					
XYLEN			2.4	UGL					
12DCD4	LT		2.6	UGL		N	1	0.000	
CD2CL2			9.0	UGL		N	1	0.000	
ETBD10			8.5	UGL		N	1	0.000	

Site Identification: WELL 01535

Sample Date: 04/10/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGG006 Lab Number: -STFP#57

Test Name	Correcte	d Value	<u>Units</u>	FC	QC	QC Spike
12DCD4		11.	UGL		N	10.000
CD2CL2		8.9	UGL		N	10.000
ETBD10		11.	UGL		N	10.000
111TCE	LT	2.4	UGL		R	
112TCE	LT	1.6	UGL		R	
11DCLE	LT	1.4	UGL		R	
12DCE	LT	3.2	UGL		R	
12DCLE	LT	0.72	UGL		R	
13DMB	LT	2.9	UGL		R	
BCHPD	LT	1.8	UGL		R	
C6H6	4.	500.	UGL		R	
CCL4	LT	4.9	UGL		R	
CH2CL2	ND	5.0	UGL	R	R	
CHCL3	LT	1.7	UGL	11	R	
CLC6H5	LT	1.8	UGL		R	
DBCP	LT	5.6	UGL		R	
DCPD	4	4.7	UGL		R	
DMDS	LT	3.7	UGL		R	
ETC6H5	LT	2.4	UGL		R	
MEC6H5	LT	3.5	UGL		R	
MIBK	LT	1.2	UGL		R	
TCLEE	LT	2.9	UGL		R	
TRCLE	LT	2.0	UGL		R	
XYLEN	LT	2.4	UGL		R	

Method: UU8

Analysis Number: QGG009 Lab Number: -STFP#60

Test Name	Corrected	Value	<u>Units</u>	FC	<u>QC</u>	QC	Spike
112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2	LT	2.4 1.6 1.4 3.2 7.8 1.8 100. 4.9 5.0	UGL UGL UGL UGL UGL UGL UGL UGL UGL	R			

Site Identification: WELL 01535

04/10/90

Sample Date:
Depth(ft):
Method: UU8 0.0 Sampling Technique: P

Analysis Number: QGG009 Lab Number: -STFP#60

m					
Test Name	Corre	cted Value	Units	FC QC	QC Spike
CLC6H5		93.	UGL		
DBCP	${ t LT}$	5.6	UGL		
DCPD		110.	UGL		
DMDS	LT	3.7	UGL		
ETC6H5		4.7	UGL		
MEC6H5		83.	UGL		
MIBK	LT	1.2	UGL		
TCLEE	LT	2.9	UGL		
TRCLE	LT	2.0	UGL		
XYLEN		16.	UGL		
12DCD4	LT	2.6	UGL	N	10.000
CD2CL2	LT	5.2	UGL	N	10.000
ETBD10		4.4	UGL	N	10.000

Site Identification: WELL 01537

Sample Date: 03/30/90

Depth(ft): Method: UU8 0.0 Sampling Technique: P

Analysis Number: QGA006 Lab Number: -STFP#30

Test Name	Correcte	d Value	Units	FC	QC	QC	Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN	LT LT LT LT LT LT LT LT LT LT LT LT LT L	11. 8.4 11. 2.4 1.6 1.4 3.2 0.72 2.9 1.8 5.9 4.9 5.0 1.7 1.8 5.6 3.7 2.4 3.7 2.4 3.7 2.9 4.9 5.0 1.7	UGL	R		1	10.000 10.000 10.000

Sample Date: 04/03/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8
Analysis Number: QGC005 Lab Number: -STFP#42

Test Name	Corrected	l Value	Units	<u>FC</u>	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD		32.	UGL				
С6Н6	LT	2.7	UGL				
CCL4	LT	4.9	UGL				

Site Identification: WELL 01537

Sample Date: 04/03/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8
Analysis Number: QGC005 Lab Number: -STFP#42

Test Name	Correcte	ed Value	Units	FC	QC	QC Spike
CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	ND LT LT LT LT LT LT LT LT	5.0 1.7 1.8 5.6 800. 3.7 2.4 3.5 1.2 2.9 2.0 2.4 10. 9.6 8.8	UGL	R	N N N	10.000 10.000 10.000

Site Identification: WELL 01539

Sample Date: 04/06/90
Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGE007 Lab Number: -STFP#50

Test Name	Corr	ected Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	GT	160.	UGL				
BCHPD	GT	160.	UGL				
С6Н6	-	2000000.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	GT	160.	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	GT	160.	UGL				
MEC6H5	GT	160.	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	GT	320.	UGL				
12DCD4	LT	2.6	UGL		N		10.000
CD2CL2		61.	UGL		N		10.000
ETBD10		12.	UGL		N		10.000

Site Identification: WELL 01540

Sample Date: 04/09/90
Depth(ft): 0.0 Sam
Method: UU8
Analysis Number: QGE008 Sampling Technique: P

Lab Number: -STFP#52

Test Name	Corre	ected V	<i>l</i> alue	Units	FC	QC	QC	Spike	
111TCE	LT	2	2.4	UGL					
112TCE	LT	1	6	UGL					
11DCLE	LT	1	4	UGL					
12DCE	LT	3	3.2	UGL					
12DCLE	LT	0.	.72	UGL					
13DMB		8	39.	UGL					
BCHPD	LT	1	8	UGL					
C6H6		200000	0.	UGL					
CCL4	LT	4	1.9	UGL					
CH2CL2	ND	5	5.0	UGL	R				
CHCL3	LT	1	7	UGL					
CLC6H5			1.5	UGL					
DBCP	LT		.6	UGL					
DCPD		1	.8.	UGL					
DMDS	LT		3.7	UGL					
ETC6H5			6.	UGL					
MEC6H5	GT		0.	UGL					
MIBK	LT		2	UGL					
TCLEE	LT		. 9	UGL					
TRCLE	LT		. 0	UGL					
XYLEN			10.	UGL					
12DCD4	LT		. 6	UGL		N	1	0.000	
CD2CL2	LT		5.2	UGL		N		0.000	
ETBD10		1	.0.	UGL		N	1	0.000	

Site Identification: WELL 01541

Sample Date: 04/09/90

0.0 Sampling Technique: P Depth(ft):

Method: UU8

Analysis Number: QGE009 Lab Number: -STFP#53

Test Name	Corrected Value	Units FC QC QC Spike
111TCE	LT 2.4	UGL
112TCE	LT 1.6	UGL
11DCLE	LT 1.4	UGL
12DCE	LT 3.2	UGL
12DCLE	LT 0.72	UGL
13DMB	63.	UGL
BCHPD	LT 1.8	UGL
C6H6	2000000.	UGL
CCL4	LT 4.9	UGL
CH2CL2	ND 5.0	UGL R
CHCL3	LT 1.7	UGL
CLC6H5	8.7	UGL
DBCP	LT 5.6	UGL
DCPD	88.	UGL
DMDS	LT 3.7	UGL
ETC6H5	60.	UGL
MEC6H5	GT 160.	UGL
MIBK	LT 1.2	UGL
TCLEE	LT 2.9	UGL
TRCLE	LT 2.0	UGL
XYLEN	130.	UGL
12DCD4	LT 2.6	UGL N 10.000
CD2CL2	LT 5.2	UGL N 10.000
ETBD10	9.9	UGL N 10.000

Method: UU8

Analysis Number: QGG003 Lab Number: -STFP#54

Test Name	Corrected	Value	Units FC	QC	QC Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD	LT LT LT LT LT LT LT	11. 9.7 10. 2.4 1.6 1.4 3.2 0.72 2.9 1.8	UGL UGL UGL UGL UGL UGL UGL UGL UGL	N N T T T T	10.000 10.000 10.000
C6H6		3.0	UGL	\mathbf{T}	

Site Identification: WELL 01541

<u>Sample Date</u>: 04/09/90 <u>Depth(ft)</u>: 0.0 Sampling Technique: P

Method: UU8
Analysis Number: QGG003 Lab Number: -STFP#54

Test Name	Corrected	Value	<u>Units</u>	FC	<u>QC</u>	QC	Spike
CCL4	LT	4.9	UGL		T		
CH2CL2	ND	5.0	UGL	R	\mathbf{T}		
CHCL3	LT	1.7	UGL		\mathbf{T}		
CLC6H5	LT	1.8	UGL		T		
DBCP	LT	5.6	UGL		${f T}$		
DCPD	LT	3.7	UGL		\mathbf{T}		
DMDS	LT	3.7	UGL		${f T}$		
ETC6H5	LT	2.4	UGL		\mathbf{T}		
MEC6H5	LT	3.5	UGL		\mathbf{T}		
MIBK	LT	1.2	UGL		\mathbf{T}		
TCLEE	LT	2.9	UGL		\mathbf{T}		
TRCLE	LT	2.0	UGL		${f T}$		
XYLEN	LT	2.4	UGL		${f T}$		

Site Identification: WELL 01547

Sample Date: 04/02/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGA007 Lab Number: -STFP#31

Test Name	Corrected	l Value	<u>Units</u>	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2					
12DCLE			UGL				
	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6		65.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LΤ	1.7	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		10.	UGL		N	1	10.000
CD2CL2		8.9	UGL		N		LO.000
ETBD10		9.8	UGL		N		10.000

Site Identification: WELL 01552

Sample Date: 04/02/90
Depth(ft): 0.0 Samp.
Method: UU8
Analysis Number: QGA008 Sampling Technique: P

Lab Number: -STFP#32

Test Name	Correcte	d Value	Units	<u>FC</u>	<u>QC</u>	QC	Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCLE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL3 CHCL3 CHCL3 CHCC6H5 DBCP DCPD DMDS ETC6H5 MIBK TCLEE XYLEN	LT LT LT LT LT LT LT LT LT LT	11. 7.9 11. 2.4 1.6 1.4 3.2 0.72 18. 6.8 200. 4.9 5.0 1.7 1.8 5.6 54. 3.7 22. 120. 1.2 2.9 2.0 36.	UGL	R	NNNRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	1	L0.000 L0.000

Method: UU8

Analysis Number: QGB003 Lab Number: -STFP#34

Test Name	Correct	ed Value	<u>Units</u>	FC	<u>QC</u>	QC	Spike
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2	LT LT LT LT GT GT	2.4 1.6 1.4 3.2 0.72 160. 160. 80000. 4.9 82.	UGL UGL UGL UGL UGL UGL UGL UGL UGL	R			
CHCL3	LT	1.7	UGL				

Site Identification: WELL 01552

Sample Date: 04/02/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGB003 Lab Number: -STFP#34

Test Name	Corre	cted Value	Units	FC	QC	QC	Spike	
CLC6H5	LT	1.8	UGL					
DBCP	LT	5.6	UGL					
DCPD	GT	160.	UGL					
DMDS	LT	3.7	UGL					
ETC6H5	GT	160.	UGL					
MEC6H5		9000.	UGL					
MIBK	LT	1.2	UGL					
TCLEE	LT	2.9	UGL					
TRCLE	LT	2.0	UGL					
XYLEN	GT	320.	UGL					
12DCD4	LT	2.6	UGL		N	1	0.000	
CD2CL2		18.	UGL		N	1	0.000	
ETBD10		13.	UGL		N	1	0.000	

Site Identification: WELL 01554

Sample Date: 03/30/90

Depth(ft): 0.0 Samp

Method: UU8

Analysis Number: QGA004 Sampling Technique: P

Lab Number: -STFP#28

Test Name	Corre	cted Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB		98.	UGL				
BCHPD	LT	1.8	UGL				
C6H6		400000.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	GT	160.	UGL				
DMDS	LT	3.7	UGL				
ETC6H5		28.	UGL				
MEC6H5		79.	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN		200.	UGL				
12DCD4	LT	2.6	UGL		N		10.000
CD2CL2		73.	UGL		N		10.000
ETBD10		12.	UGL		N		10.000

Site Identification: WELL 01559

Sample Date: 04/09/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8
Analysis Number: QGG004 Lab Number: -STFP#55

Test Name	Corre	cted Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB		38.	UGL				
BCHPD	LT	1.8	UGL				
C6H6		600000.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5		13.	UGL				
DBCP	LT	5.6	UGL				
DCPD		38.	UGL				
DMDS	LT	3.7	UGL				
ETC6H5		50.	UGL				
MEC6H5		130.	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN		77.	UGL			6	
12DCD4	LT	2.6	UGL		N		10.000
CD2CL2		11.	UGL		N		10.000
ETBD10		10.	UGL		N		10.000

Site Identification: WELL 01560

Sample Date: 03/29/90
Depth(ft): 0.0 Sampling Technique: P

Method: UU8
Analysis Number: GSY008 Lab Number: -STFP#22

Test Name	Correct	ted Value	Units	<u>FC</u>	QC	QC	Spike	
111TCE	LT	2.4	UGL					
112TCE	LT	1.6	UGL					
11DCLE	LT	1.4	UGL					
12DCE	LT	3.2	UGL					
12DCLE	LT	0.72	UGL					
13DMB	LT	2.9	UGL					
BCHPD	LT	1.8	UGL					
C6H6		50000.	UGL					
CCL4	LT	4.9	UGL					
CH2CL2	ND	5.0	UGL	R				
CHCL3	LT	1.7	UGL					
CLC6H5	LT	1.8	UGL					
DBCP	LT	5.6	UGL					
DCPD		7.5	UGL					
DMDS	LT	3.7	UGL					
ETC6H5		2.5	UGL					
MEC6H5	LT	3.5	UGL					
MIBK	LT	1.2	UGL					
TCLEE	LT	2.9	UGL					
TRCLE	LT	2.0	UGL					
XYLEN	LT	2.4	UGL					
12DCD4	LT	2.6	UGL		N	1	.0.000	
CD2CL2		8.6	UGL		N	1	10.000	
ETBD10		10.	UGL		N	1	10.000	

Site Identification: WELL 01565

Sample Date: 04/10/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8
Analysis Number: QGH003 Lab Number: -STFP#61

Test Name	Corr	ected Value	Units	FC	QC	QC	Spike
111TCE	LT	50000.	UGL				
112TCE	LT	30000.	UGL				
11DCLE	LT	30000.	UGL				
12DCE	LT	60000.	UGL				
12DCLE	LT	10000.	UGL				
13DMB	LT	60000.	UGL				
BCHPD	LT	40000.	UGL				
C6H6		2000000.	UGL				
CCL4	LT	100000.	UGL				
CH2CL2	ND	100000.	UGL	R			
CHCL3	LT	30000.	UGL				
CLC6H5	LT	40000.	UGL				
DBCP	LT	100000.	UGL				
DCPD	LT	70000.	UGL				
DMDS	LT	70000.	UGL				
ETC6H5	LT	50000.	UGL				
MEC6H5	LT	70000.	UGL				
MIBK	LT	20000.	UGL				
TCLEE	LT	60000.	UGL				
TRCLE	LT	40000.	UGL				
XYLEN	LT	50000.	UGL				
12DCD4		11.	UGL		N		10.000
CD2CL2		8.4	UGL		N		10.000
ETBD10		10.	UGL		N]	10.000

Site Identification: WELL 01578

Sample Date: 03/30/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGA005 Lab Number: -STFP#29

Test Name	Corrected	d Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6		200.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD		14.	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		12.	UGL		N		10.000
CD2CL2		9.8	UGL		N		10.000
ETBD10		12.	UGL		N	1	10.000

Site Identification: WELL 01579

Sample Date: 04/02/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGB004 Lab Number: -STFP#35

Test						
Name	Correcte	d Value	Units	FC	QC	QC Spike
12DCD4		11.	UGL		N	10.000
CD2CL2		12.	UGL		N	10.000
ETBD10		11.	UGL		N	10.000
111TCE	LT	2.4	UGL		\mathbf{T}	
112TCE	LT	1.6	UGL		T	
11DCLE	LT	1.4	UGL		\mathbf{T}	
12DCE	LT	3.2	UGL		\mathbf{T}	
12DCLE	LT	0.72	UGL		T	
13DMB	LT	2.9	UGL		\mathbf{T}	
BCHPD	LT	1.8	UGL		\mathbf{T}	
C6H6		4.9	UGL		\mathbf{T}	
CCL4	LT	4.9	UGL		T	
CH2CL2	ND	5.0	UGL	R	\mathbf{T}	
CHCL3	LT	1.7	UGL		\mathbf{T}	
CLC6H5	LT	1.8	UGL		\mathbf{T}	
DBCP	LT	5.6	UGL		${f T}$	
DCPD	LT	3.7	UGL		${f T}$	
DMDS	LT	3.7	UGL		${f T}$	
ETC6H5	LT	2.4	UGL		${f T}$	
мес6н5	LT	3.5	UGL		\mathbf{T}	
MIBK	LT	1.2	UGL		${f T}$	
TCLEE	LT	2.9	UGL		\mathbf{T}	
TRCLE	LT	2.0	UGL		\mathbf{T}	
XYLEN	LT	2.4	UGL		${f T}$	

Sample Date: 04/03/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGB005 Lab Number: -STFP#36

Test Name	Correcte	d Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6	GT	160.	UGL				
CCL4	LT	4.9	UGL				

Site Identification: WELL 01579

Sample Date: 04/03/90
Depth(ft): 0.0 Sampl:
Method: UU8
Analysis Number: QGB005 0.0 Sampling Technique: P

Lab Number: -STFP#36

Test Name	Corrected	Value	Units	FC	QC	QC	Spike
CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4	ND LT LT LT LT	5.0 1.7 1.8 5.6 28. 3.7 2.9 18. 1.2 2.9 2.0 4.7	UGL	R	N		10.000
CD2CL2 ETBD10		11. 11.	UGL UGL		N N	_	LO.000 LO.000

Site Identification: WELL 01580

Sample Date: 03/29/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8
Analysis Number: GSY009 Lab Number: -STFP#23

Test Name	Corrected	Value	Units	FC	O.C.	O.C.	Spike	
	00110000				<u>× · · · · · · · · · · · · · · · · · · ·</u>	<u>× · · · · · · · · · · · · · · · · · · ·</u>	opine	
111TCE	LT	2.4	UGL					
112TCE	LT	1.6	UGL					
11DCLE	LT	1.4	UGL					
12DCE	LT	3.2	UGL					
12DCLE	LT	0.72	UGL					
13DMB	LT	2.9	UGL					
BCHPD	LT	1.8	UGL					
C6H6		73.	UGL					
CCL4	LT	4.9	UGL					
CH2CL2	ND	5.0	UGL	R				
CHCL3	LT	1.7	UGL					
CLC6H5	LT	1.8	UGL					
DBCP	LT	5.6	UGL					
DCPD	LT	3.7	UGL					
DMDS	LT	3.7	UGL					
ETC6H5	LT	2.4	UGL					
MEC6H5	LT	3.5	UGL					
MIBK	LT	1.2	UGL					
TCLEE	LT	2.9	UGL					
TRCLE	LT	2.0	UGL					
XYLEN	LT	2.4	UGL					
12DCD4		12.	UGL		N		10.000	
CD2CL2		12.	UGL		N		10.000	
ETBD10		10.	UGL		N	J	10.000	

Sample Date: 04/30/90
Depth(ft): 0.0 Sampling Technique: P
Method: UU8

Analysis Number: QGJ008 Lab Number: -STFP#67

Test Name	Corrected	d Value	<u>Units</u>	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6	LT	2.7	UGL				
CCL4	LT	4.9	UGL				

Site Identification: WELL 01580

Sample Date: 04/30/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8
Analysis Number: QGJ008 Lab Number: -STFP#67

Test Name	Corrected	Value	Units	FC	QC	QC	Spike
CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	LT	5.6 1.7 1.8 5.6 3.7 2.4 3.5 1.2 2.9 2.0 2.4 13. 13.	UGL	R	N N	1	10.000 10.000 10.000

Method: UU8

Analysis Number: QGJ009 Lab Number: -STFP#68

Test Name	Correcte	d Value	Units	<u>FC</u>	<u>QC</u>	QC Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5	LT LT LT LT LT LT LT LT LT LT LT	12. 12. 9.4 2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9 5.0 1.7 1.8 5.6 3.7 2.4 3.5	UGL	R		10.000

Site Identification: WELL 01580

Sample Date: 04/30/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGJ009 Lab Number: -STFP#68

Test

Name	Corrected	Value	Units	FC	<u>QC</u>	QC	Spike
MIBK	LT	1.2	UGL		Т		
TCLEE	LT	2.9	UGL		\mathbf{T}		
TRCLE	LT	2.0	UGL		\mathbf{T}		
XYLEN	LT	2.4	UGL		\mathbf{T}		

Site Identification: WELL 01581

Sample Date: 03/29/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: GSY010 Lab Number: -STFP#24

Corrected	. Value	Units	FC	OC	റ്റ	Spike
00220000	10100	0111 00	<u> </u>	<u> </u>	<u> </u>	Брікс
LT	2.4	UGL				
LT	1.6	UGL				
LT	1.4	UGL				
LT	3.2	UGL				
LT	0.72	UGL				
LT	2.9	UGL				
LT	1.8	UGL				
	56.	UGL				
LT	4.9	UGL				
ND	5.0	UGL	R			
LT	1.7	UGL				
LT	1.8	UGL				
LT	5.6	UGL				
LT	3.7	UGL				
LT	3.7	UGL				
LT	2.4	UGL				
LT		UGL				
LT		UGL				
LT		UGL				
LT		UGL				
LT		UGL				
		UGL		N		0.000
		UGL		N		0.000
	9.3	UGL		N	1	0.000
	LT L	LT 1.6 LT 1.4 LT 3.2 LT 0.72 LT 2.9 LT 1.8 56. LT 4.9 ND 5.0 LT 1.7 LT 1.8 LT 3.7 LT 2.4 LT 3.5 LT 2.4 LT 2.9 LT 2.9 LT 2.9 LT 2.9 LT 2.9	LT 2.4 UGL LT 1.6 UGL LT 1.4 UGL LT 3.2 UGL LT 0.72 UGL LT 2.9 UGL LT 1.8 UGL 56. UGL LT 4.9 UGL ND 5.0 UGL LT 1.7 UGL LT 1.8 UGL LT 1.7 UGL LT 1.8 UGL LT 2.9 UGL LT 2.9 UGL LT 1.7 UGL LT 1.8 UGL LT 2.4 UGL LT 2.4 UGL LT 2.4 UGL LT 2.9 UGL LT 2.10 UGL LT 2.4 UGL LT 2.9 UGL LT 2.10 UGL	LT 2.4 UGL LT 1.6 UGL LT 1.4 UGL LT 3.2 UGL LT 0.72 UGL LT 2.9 UGL LT 1.8 UGL 56. UGL LT 4.9 UGL ND 5.0 UGL LT 1.7 UGL LT 1.8 UGL LT 1.7 UGL LT 1.8 UGL LT 2.9 UGL LT 2.9 UGL LT 1.7 UGL LT 1.8 UGL LT 1.7 UGL LT 2.4 UGL LT 2.4 UGL LT 2.9 UGL LT 2.0 UGL LT 2.10 UGL LT 2.4 UGL LT 2.9 UGL	LT 2.4 UGL LT 1.6 UGL LT 1.4 UGL LT 3.2 UGL LT 0.72 UGL LT 2.9 UGL LT 1.8 UGL 56. UGL LT 4.9 UGL ND 5.0 UGL LT 1.7 UGL LT 1.8 UGL LT 1.7 UGL LT 1.8 UGL LT 2.9 UGL LT 2.9 UGL LT 1.8 UGL ND 5.0 UGL LT 1.7 UGL LT 1.8 UGL LT 1.8 UGL LT 2.4 UGL LT 2.4 UGL LT 2.4 UGL LT 2.9 UGL LT 2.0 UGL LT 2.4 UGL	LT 2.4 UGL LT 1.6 UGL LT 1.4 UGL LT 3.2 UGL LT 0.72 UGL LT 2.9 UGL LT 1.8 UGL 56. UGL LT 4.9 UGL ND 5.0 UGL LT 1.7 UGL LT 1.8 UGL LT 1.7 UGL LT 1.8 UGL LT 2.9 UGL LT 2.9 UGL LT 1.8 UGL LT 1.7 UGL LT 1.8 UGL LT 2.4 UGL LT 2.4 UGL LT 2.9 UGL LT 2.4 UGL LT 2.9 UGL

Sample Date: 04/30/90

Depth(ft): Method: UU8 0.0 Sampling Technique: P

Analysis Number: QGJ010 Lab Number: -STFP#69

Test Name	Correcte	d Value	Units FC QC QC Spike	
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4	LT LT LT LT LT LT LT LT	2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9	UGL UGL UGL UGL UGL UGL UGL UGL	

Site Identification: WELL 01581

Sample Date: 04/30/90

Depth(ft): 0.0 Sampling Technique: P

Analysis Number: QGJ010 Lab Number: -STFP#69

Test Name	Corrected	Value	<u>Units</u>	FC	QC	QC	Spike
CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	ND LT LT LT LT LT LT LT LT LT LT	5.0 1.7 1.8 5.6 3.7 3.7 2.4 3.5 1.2 2.9 2.0 2.4 13. 12. 9.8	UGL	R	N N N	1	LO.000 LO.000 LO.000

Site Identification: WELL 01586

03/29/90 Sample Date:

0.0 Sampling Technique: P Depth(ft):

Method: UU8

Analysis Number: GSY011 Lab Number: -STFP#25

Test Name	Corrected	Value	Unite	E.C	00	OC	Snika	
Name	COllected	value	Unites	rc	<u>QC</u>	<u>QC</u>	Spike	
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB	LT	2.4 1.6 1.4 3.2 0.72 2.9	UGL UGL UGL UGL UGL UGL					
13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN	LT LT ND LT	2.9 1.8 15.9 5.0 1.8 5.6 3.7 2.4 3.5 1.2 2.9 2.0 2.4	UGL	R				
12DCD4 CD2CL2 ETBD10	~ *	10. 9.1 8.6	UGL UGL UGL		N N	- :	10.000 10.000 10.000	

Sample Date: 05/01/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGI004 Lab Number: -STFP#73

Test Name	Corrected	d Value	Units	FC	QC	QC	Spike
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4	LT LT LT LT LT LT LT LT LT	2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9	UGL UGL UGL UGL UGL UGL UGL UGL				

Site Identification: WELL 01586

Sample Date: 05/01/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGI004 Lab Number: -STFP#73

Test Name	Corrected	Value	<u>Units</u>	FC	QC	QC	Spike
CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	ND LT LT LT LT LT LT LT LT LT LT	5.0 1.7 1.8 5.6 3.7 3.7 2.4 3.5 1.2 2.9 2.0 2.4 12.9 9.9	UGL	R	N N	1	.0.000 .0.000 .0.000

Site Identification: WELL 01587

Sample Date: 03/29/90
Depth(ft): 0.0 Sampli
Method: UU8
Analysis Number: GSY012 Sampling Technique: P

Lab Number: -STFP#26

Test Name	Correcte	ed Value	<u>Units</u>	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6 H 6		2000.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD		69.	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		6.4	UGL		N		0.000
CD2CL2		8.3	UGL		N		.0.000
ETBD10		9.6	UGL		N	1	.0.000

Site Identification: WELL 01588

Sample Date: 04/02/90
Depth(ft): 0.0 Sampling Technique: P
Method: UU8

Analysis Number: QGA009 Lab Number: -STFP#33

Test							
Name	Corre	cted Value	Units	\underline{FC}	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB		26.	UGL				
BCHPD	GT	160.	UGL				
C6H6		40000.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	\mathtt{GT}	160.	UGL				
DMDS	LT	3.7	UGL				
ETC6H5		3.0	UGL				
MEC6H5		17.	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	T 77	54.	UGL				
12DCD4	LT	2.6 5.2	UGL		N		10.000
CD2CL2	LT		UGL		N		10.000
ETBD10		11.	UGL		N	_	LO.000

Site Identification: WELL 02501

Sample Date: 04/04/90
Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGD003 Lab Number: -STFP#44

Test Name	Correc	ted Value	Units	FC	<u>QC</u>	QC	Spike
111TCE 112TCE	LT LT	2.4 1.6	UGL UGL				
11DCLE		3.2	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6		40000.	UGL				
CCL4	LT	4.9	UGL	_			
CH2CL2	ND	5.0	UGL	R			
CHCL3 CLC6H5		7.4 19.	UGL UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4	LT	2.6	UGL		N		10.000
CD2CL2		9.4	UGL		N		10.000
ETBD10		12.	UGL		N	1	10.000

Method: UU8
Analysis Number: QGD004 Lab Number: -STFP#45

Test Name	Corrected	Value	<u>Units</u>	FC	QC	QC	Spike
112TCE 1 11DCLE 12DCE 1 12DCLE 1 13DMB 1 BCHPD 1 C6H6 CCL4	LT LT	2.4 1.6 2.9 3.2 2.72 2.9 1.8 00. 4.9 5.0 7.3	UGL UGL UGL UGL UGL UGL UGL UGL UGL UGL	D D D D D D D R D			

Site Identification: WELL 02501

Sample Date: 04/04/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGD004 Lab Number: -STFP#45

Test Name	Corrected	Value	<u>Units</u>	FC	QC	QC	Spike
CLC6H5		17.	UGL	D			
DBCP	LT	5.6	UGL	D			
				D			
DCPD	LT	3.7	UGL	D			
DMDS	LT	3.7	UGL	D			
ETC6H5	LT	2.4	UGL	D			
MEC6H5	LT	3.5	UGL	D			
MIBK	LT	1.2	UGL	D			
TCLEE	LT	2.9	UGL	D			
TRCLE	LT	2.0	UGL	D			
XYLEN	LT	2.4	UGL	D			
12DCD4	LT	2.6	UGL	D	N	1	0.000
CD2CL2		9.5	UGL	D	N	1	.0.000
ETBD10		11.	UGL	D	N	1	0.000

Method: UU8

Analysis Number: QGD005 Lab Number: -STFP#46

Test Name	Corrected	d Value	Units	FC	QC	QC Spike
Name 12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCLE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5	LT L	9.8 10. 9.1 2.4 1.6 1.4 3.2 0.72 2.9 1.8 4.4 4.9 5.0 1.7 1.8 5.6 3.7 3.7 2.4 3.5	Units UGL	R	O NNNTTTTTTTTTTTTTTTTT	10.000 10.000 10.000
MIBK TCLEE	LT LT	1.2 2.9	UGL UGL		${f T}$	

Site Identification: WELL 02501

Sample Date: 04/04/90
Depth(ft): 0.0
Method: UU8

Sampling Technique: P

Analysis Number: QGD005 Lab Number: -STFP#46

Test

Corrected Value Units FC QC QC Spike Name

TRCLE 2.0 UGL LT Т XYLEN LT2.4 UGL Т

Site Identification: WELL 02502

04/06/90 Sample Date:

Sampling Technique: P Depth(ft): 0.0

Method: UU8 Analysis Number: QGF003 Lab Number: -STFP#51

Test Name	Correcte	d Value	<u>Units</u>	<u>FC</u>	QC	QC Spike
12DCD4 CD2CL2		10. 10.	UGL UGL		N N	10.000
ETBD10		9.8	UGL		N	10.000
111TCE	LT	2.4	UGL		T	10.000
112TCE	LT	1.6	UGL		Ť	
11DCLE	LT	1.4	UGL		Ť	
12DCE	LT	3.2	UGL		T	
12DCLE	LT	0.72	UGL		T	
13DMB	LT	2.9	UGL		T	
BCHPD	LT	1.8	UGL		T	
C6H6	LT	2.7	UGL		T	
CCL4	LT	4.9	UGL		\mathbf{T}	
CH2CL2	ND	5.0	UGL	R	\mathbf{T}	
CHCL3	LT	1.7	UGL		${f T}$	
CLC6H5	LT	1.8	UGL		T	
DBCP	LT	5.6 3.7	UGL		T	
DCPD DMDS	LT LT	3.7	UGL UGL		T T	
ETC6H5	LT	2.4	UGL		T	
MEC6H5	LT	3.5	UGL		T	
MIBK	LT	1.2	UGL		Ť	
TCLEE	LT	2.9	UGL		T	
TRCLE	LT	2.0	UGL		$\bar{\mathtt{T}}$	
XYLEN	LT	2.4	UGL		\mathbf{T}	

Sample Date: 04/09/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8
Analysis Number: QGG005 Lab Number: -STFP#56

Test Name	Correct	ted Value	<u>Units</u>	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE		3.7	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6		30000.	UGL				
CCL4	LT	4.9	UGL				

Site Identification: WELL 02502

Sample Date: 04/09/90
Depth(ft): 0.0 Sam
Method: UU8
Analysis Number: QGG005 Sampling Technique: P

Lab Number: -STFP#56

CH2CL2 ND 5.0 UGL R CHCL3 5.2 UGL CLC6H5 14. UGL DBCP LT 5.6 UGL DCPD LT 3.7 UGL DMDS LT 3.7 UGL ETC6H5 LT 2.4 UGL MEC6H5 LT 3.5 UGL MIBK LT 1.2 UGL TCLEE LT 2.9 UGL TRCLE LT 2.0 UGL XYLEN LT 2.4 UGL	Test Name	Corrected	Value	<u>Units</u>	<u>FC</u>	QC	QC	Spike
12DCD4 LT 2.6 UGL N 10.000 CD2CL2 8.5 UGL N 10.000 ETBD10 10. UGL N 10.000	CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2	LT LT LT LT LT LT LT LT	5.2 14. 5.6 3.7 3.7 2.4 3.5 1.2 2.9 2.0 2.4 2.6 8.5	UGL	R	N	1	10.000

Site Identification: WELL 02503

Sample Date: 04/04/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8
Analysis Number: QGE004 Lab Number: -STFP#47

Test							
Name	Correct	ed Value	Units	FC	\underline{QC}	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	~-	58.	UGL				
12DCE		12.	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
С6Н6		9000.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3		7.5	UGL				
CLC6H5		58.	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		11.	UGL		N		10.000
CD2CL2		9.1	UGL		N		10.000
ETBD10		12.	UGL		N	1	10.000

Method: UU8

Analysis Number: QGE005 Lab Number: -STFP#48

Test Name	Corrected	d Value	<u>Units</u>	FC	QC	QC	Spike
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3	LT LT LT LT LT LT LT LT LT LT	2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9 5.0	UGL UGL UGL UGL UGL UGL UGL UGL UGL	R	444444444		

Site Identification: WELL 02503

04/04/90

Sample Date:
Depth(ft):
Method: UU8 Sampling Technique: P 0.0

Analysis Number: QGE005 Lab Number: -STFP#48

Test Name	Corrected	Value	Units FC	QC Q	C Spike
CLC6H5	LT	1.8	UGL	F	
DBCP	LT	5.6	UGL	F	
DCPD	LT	3.7	UGL	F	
DMDS	LT	3.7	UGL	F	
ETC6H5	LT	2.4	UGL	F	
MEC6H5	LT	3.5	UGL	F	
MIBK	LT	1.2	UGL	F	
TCLEE	LT	2.9	UGL	F	
TRCLE	LT	2.0	UGL	F	
XYLEN	LT	2.4	UGL	F	
12DCD4		12.	UGL	N	10.000
CD2CL2		11.	UGL	N	10.000
ETBD10		11.	UGL	N	10.000

Site Identification: WELL 02504

Sample Date: 04/03/90
Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: QGB006 Lab Number: -STFP#37

Test Name	Corrected	i Value	Units	FC	٥٢	٥C	Spike
	302230000		0112 00		~	20	DDIKE
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE		51.	UGL				
12DCE		15.	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6		500.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5		24.	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE TRCLE	LT	2.9 2.1	UGL				
XYLEN	LT	2.4	UGL UGL				
12DCD4	 ↓	11.	UGL		N	1	10.000
CD2CL2		10.	UGL		N		10.000
ETBD10		9.8	UGL		N		10.000
					- •	-	

Method: UU8

Analysis Number: QGB007 Lab Number: -STFP#38

Test Name	Correcte	d Value	<u>Units</u>	<u>FC</u>	QC	QC	Spike
111TCE	LT	2.4	UGL	D			
112TCE	LT	1.6	UGL	D			
11DCLE		57.	UGL	D			
12DCE		19.	UGL	D			
12DCLE	LT	0.72	UGL	D			
13DMB	LT	2.9	UGL	D			
BCHPD	LT	1.8	UGL	D			
C6H6		400.	UGL	D			
CCL4	LT	4.9	UGL	D			
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL	D			

Site Identification: WELL 02504

Sample Date: 04/03/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8 Analysis Number: QGB007 Lab Number: -STFP#38

Test Name	Corrected	Value	Units	FC	QC	QC Spike
CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4	LT LT LT LT LT LT LT	24. 5.6 3.7 3.7 2.4 3.5 1.2 2.9 2.5 2.4	UGL UGL UGL UGL UGL UGL UGL UGL		N	10.000
CD2CL2 ETBD10		11.	UGL UGL	D D	N N	10.000

Method: UU8

Analysis Number: QGE003 Lab Number: -STFP#43

Test Name	Corrected	d Value	Units	<u>FC</u>	QC	QC Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK	LT L	9.8 9.8 9.8 9.8 2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9 5.0 1.7 1.8 5.7 2.4 3.7 4.9 5.0 1.7 1.8 5.7 2.4 3.7 2.4 3.7 3.7 4.9 5.0 3.7 4.9 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	UGL	R		10.000
TCLEE	LT	2.9	UGL		\mathbf{T}	

Site Identification: WELL 02504

Sample Date: 04/03/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8
Analysis Number: QGE003 Lab Number: -STFP#43

Test

Corrected Value Units FC QC QC Spike Name TRCLE LT2.0 UGL XYLEN LT 2.4 UGL Т

Sample Date: 05/02/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8 Analysis Number: QGK008 Lab Number: -STFP#81

Test

Name	Corrected	l Value	Units	FC	QC	QC	Spike
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6	LT LT LT LT LT	2.4 1.6 66. 16. 0.72 2.9 1.8 300.	UGL UGL UGL UGL UGL UGL UGL UGL	10	<u>yc</u>	<u> </u>	Бріке
CCL4 CH2CL2	LT	4.9	UGL UGL	R			
CHCL3 CLC6H5	LT	1.7	UGL UGL	1.			
DBCP	LT	5.6	UGL				
DCPD DMDS	LT LT	3.7 3.7	UGL UGL				
ETC6H5 MEC6H5	LT LT	2.4 3.5	UGL UGL				
MIBK TCLEE TRCLE	LT LT	1.2 2.9 3.4	UGL UGL UGL				
XYLEN 12DCD4 CD2CL2 ETBD10	LT	2.4 9.4 8.2 8.9	UGL UGL UGL UGL		N N N	1	.0.000 .0.000

Site Identification: WELL 02504

05/02/90

Sample Date: 05/02/9
Depth(ft): 0.0
Method: UU8 Sampling Technique: P

Analysis Number: QGK009 Lab Number: -STFP#82

Test Name	Corrected	d Value	Units	<u>FC</u>	QC	QC	Spike
111TCE	LT	2.4	UGL		F		
112TCE	LT	1.6	UGL		F		
11DCLE	LT	1.4	UGL		F		
12DCE	LT	3.2	UGL		F		
12DCLE	LT	0.72	UGL		F		
13DMB	LT	2.9	UGL		F		
BCHPD	LT	1.8	UGL		F		
C6H6	LT	2.7	UGL		F		
CCL4	LT	4.9	UGL		F		
CH2CL2		6.7	UGL	R	F		
CHCL3	LT	1.7	UGL		F		
CLC6H5		4.1	UGL		F		
DBCP	LT	5.6	UGL		F		
DCPD	LT	3.7	UGL		F		
DMDS	LT	3.7	UGL		F		
ETC6H5	LT	2.4	UGL		F		
MEC6H5	LT	3.5	UGL		F		
MIBK	LT	1.2	UGL		F		
TCLEE	LT	2.9	UGL		F		
TRCLE	LT	2.0	UGL		F		
XYLEN	LT	2.4	UGL		F		
12DCD4		11.	UGL		N	1	.0.000
CD2CL2		10.	UGL		N		.0.000
ETBD10		10.	UGL		N	1	.0.000

Site Identification: WELL 02505

Sample Date: 04/03/90

Depth(ft): 0.0 Sampling Technique: B
Method: UU8

Analysis Number: QGB008 Lab Number: -STFP#39

Test Name	Corrected	Value	Units	FC	<u>QC</u>	QC	Spike
111TCE 112TCE 11DCLE 12DCLE 12DCLE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2	LT LT	2.4 1.6 47. 16 0.72 2.9 1.8 2.7 4.9 5.0 39.1 8.5 1.2 2.9 2.6 410. 9.6	UGL UGL UGL UGL UGL UGL UGL UGL UGL UGL	Ř.	N N	1	0.000 0.000
ETBD10		9.4	UGL		N		0.000

Method: UU8
Analysis Number: QGC003 Lab Number: -STFP#40

Test Name	Correcte	d Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL	D			
112TCE	LT	1.6	UGL	D			
11DCLE		74.	UGL	D			
12DCE		21.	UGL	D			
12DCLE	LT	0.72	UGL	D			
13DMB	LT	2.9	UGL	D			
BCHPD	LT	1.8	UGL	D			
C6H6		10.	UGL	D			
CCL4	LT	4.9	UGL	D			
CH2CL2	ND	5.0	UGL	R			
CHCL3		67.	UGL	D			

Site Identification: WELL 02505

Sample Date: 04/03/90
Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Lab Number: -STFP#40 Analysis Number: QGC003

Test Name	Corrected	Value	Units	FC	QC	QC Spike
CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE	LT LT LT LT LT LT LT	1.8 5.6 3.7 3.7 2.4 3.5 1.2 2.9 3.8	UGL UGL UGL UGL UGL UGL UGL UGL	D D D D D D D D		
XYLEN 12DCD4 CD2CL2 ETBD10	LT	2.4 11. 9.3 10.	UGL UGL UGL	D D D	N N N	10.000 10.000 10.000

Sample Date: 05/01/90

Sampling Technique: P Depth(ft): Method: UU8 0.0

Analysis Number: QGI005 Lab Number: -STFP#74

Test Name	Correct	ed Value	Units	FC	QC	QC	Spike
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE	LT L	2.4 1.6 66. 19. 0.72 2.9 1.8 2.7 4.9 5.0 83.8 5.6 3.7 2.4 3.5 2.9 4.1	UGL	R			

Site Identification: WELL 02505

Sample Date: 05/01/90
Depth(ft): 0.0 Sampling Technique: P
Method: UU8

Analysis Number: QGI005 Lab Number: -STFP#74

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Name	Corrected	Value	<u>Units</u>	FC	QC	QC Spike
XYLEN 12DCD4 CD2CL2 ETBD10	LT	2.4 12. 8.3 8.9	UGL UGL UGL UGL		N N N	10.000 10.000 10.000

Method: UU8

Analysis Number: QGI006 Lab Number: -STFP#75

Name	Corrected	Value	Units	FC	QC	QC Spike
111TCE	LT	2.4	UGL	D		
112TCE	LT	1.6	UGL	D		
11DCLE		72.	UGL	D		
12DCE		19.	UGL	D		
12DCLE	LT	0.72	UGL	D		
13DMB	LT	2.9	UGL	D		
BCHPD	LT	1.8	UGL	D		
СбНб	LT	2.7	UGL	D		
CCL4	LT	4.9	UGL	D		
CH2CL2		6.2	UGL	R		
CHCL3		82.	UGL	D		
CLC6H5	LT	1.8	UGL	D		
DBCP	LT	5.6	UGL	D		
DCPD	LT	3.7	UGL	D		
DMDS	LT	3.7	UGL	D		
ETC6H5	LT	2.4	UGL	D		
MEC6H5	LT	3.5	UGL	D		
MIBK	LT	1.2	UGL	D		
TCLEE	LT	2.9	UGL	D		
TRCLE		4.4	UGL	D		
XYLEN	LT	2.4	UGL	D		
12DCD4		13.	UGL	D	N	10.000
CD2CL2		12.	UGL	D	N	10.000
ETBD10		9.9	UGL	D	N	10.000

Site Identification: WELL 02506

04/03/90 Sample Date:

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGC004 Lab Number: -STFP#41

Test Name	Correcte	d Value	Units	FC	QC	QC Spike
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6	LT LT LT LT	2.4 1.6 64. 17. 0.72 2.9 1.8 13.	UGL UGL UGL UGL UGL UGL UGL			
CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN	LT ND LT LT LT LT LT LT LT LT LT	4.9 5.0 200. 1.8 5.6 3.7 3.7 2.4 3.5 1.2 2.9 3.5 2.4	UGL	R		
12DCD4 CD2CL2 ETBD10	<u></u>	11. 9.9 8.4	UGL UGL UGL		N N N	10.000 10.000 10.000

Sample Date: 05/01/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGK003 Lab Number: -STFP#76

Test Name	Corrected	d Value	<u>Units</u>	FC	QC	QC	Spike
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4	LT LT LT LT LT LT	2.4 1.6 71. 15. 0.72 2.9 1.8 2.7 4.9	UGL UGL UGL UGL UGL UGL UGL UGL				

Site Identification: WELL 02506

Sample Date: 05/01/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8
Analysis Number: QGK003 Lab Number: -STFP#76

Test Name	Correc	ted Value	Units	FC	QC	QC	Spike	
CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	ND LT	5.0 200. 1.8 5.6 3.7 3.7 2.4 3.5 1.2 2.9 4.6 2.4 13.	UGL	R	N N N	1	10.000 10.000 10.000	

Method: UU8

Analysis Number: QGK004 Lab Number: -STFP#77

Test Name	Correcte	d Value	Units	FC	QC	QC Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 112DCE 12DCLE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5	LT LT LT LT LT LT LT LT LT LT LT LT LT	10. 8.8 8.2 2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9 5.0 1.7 2.9 5.6 3.7 2.4 3.5	UGL	R	NNNRRRRRRRRRRRRRRRRRR	10.000 10.000 10.000

Site Identification: WELL 02506

Sample Date:
Depth(ft):
Method: UU8 05/01/90

Sampling Technique: P 0.0

Lab Number: -STFP#77 Analysis Number: QGK004

Test Name	Corrected	Value	Units	FC	<u>QC</u>	QC	Spike
MIBK TCLEE TRCLE XYLEN	LT LT LT LT	1.2 2.9 2.0 2.4	UGL UGL UGL		R R R		

Site Identification: WELL 02507

Sample Date: 04/30/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGJ011 Lab Number: -STFP#70

Test Name	Corrected	Value	<u>Units</u>	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE		24.	UGL				
12DCE		6.5	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
С6Н6	LT	2.7	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3		170.	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
мес6н5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		12.	UGL		N		10.000
CD2CL2		9.9	UGL		N		10.000
ETBD10		8.8	UGL		N]	10.000

Site Identification: WELL 02508

Sample Date: 04/30/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGJ012 Lab Number: -STFP#71

Test Name	Corrected	Value	Units	FC	QC	QC	Spike
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6	LT LT LT LT LT LT LT	2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7	UGL UGL UGL UGL UGL UGL UGL				
CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS	LT ND LT LT LT LT LT	4.9 5.0 1.7 1.8 5.6 3.7 3.7	UGL UGL UGL UGL UGL UGL UGL	R			
ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	LT LT LT LT LT	2.4 3.5 1.2 2.9 2.0 2.4 12. 11.	UGL UGL UGL UGL UGL UGL UGL UGL		N N N	1	LO.000 LO.000 LO.000

Site Identification: WELL 02509

Sample Date: 03/26/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: GSX005 Lab Number: -STFP#12

Test							
Name	Corrected	<u>Value</u>	Units	<u>FC</u>	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6		400.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		11.	UGL		N	1	.0.000
CD2CL2		9.8	UGL		N	1	0.000
ETBD10		10.	UGL		N	1	0.000

Sample Date: 05/01/90
Depth(ft): 0.0 Sampling Technique: P
Method: UU8

Analysis Number: QGK005 Lab Number: -STFP#78

Test Name	Correcte	d Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6	LT	2.7	UGL				
CCL4	LT	4.9	UGL				

Site Identification: WELL 02509

05/01/90 Sample Date:

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Lab Number: -STFP#78 Analysis Number: QGK005

Test Name	Corrected	Value	Units	FC	QC	QC	Spike
CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	ND LT LT LT LT LT LT LT LT LT	5.0 1.7 1.8 5.6 3.7 3.7 2.4 3.5 1.2 2.9 2.0 2.4 9.1 8.2 8.0	UGL	R	N N N	:	10.000 10.000 10.000

Method: UU8

Analysis Number: QGK006 Lab Number: -STFP#79

Test Name	Corrected	Value	<u>Units</u>	FC	QC	QC Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5	LT L	10. 8.4 9.2 2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9 5.8 1.7 1.8 5.6 3.7 2.4 3.5	UGL	R		10.000

Site Identification: WELL 02509

Sample Date: 05/01/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGK006 Lab Number: -STFP#79

Test Name	Corrected	Value	Units	FC	QC	QC	Spike
MIBK	LT	1.2	UGL		Т		
TCLEE	LT	2.9	UGL		${f T}$		
TRCLE	LT	2.0	UGL		\mathbf{T}		
XYLEN	LT	2.4	UGL		${f T}$		

Site Identification: WELL 02510

<u>Sample Date</u>: 04/27/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8 Analysis Number: QGJ003 Lab Number: -STFP#62

Test Name	Corrected	Value	<u>Units</u>	FC	QC	QC	Spike
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2	LT LT LT LT	2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9 5.0 1.7 1.8 5.6 3.7 2.4 3.5 1.2 2.9 2.0 2.4 11.9	UGL	R	N	11 11	0.000
ETBD10		9.3	UGL		N	1	.0.000

Method: UU8

Analysis Number: QGJ004 Lab Number: -STFP#63

Test Name	Corrected	Value	Units FC	QC Q	QC Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD	LT LT LT LT LT LT	14. 12. 11. 2.4 1.6 1.4 3.2 0.72 2.9 1.8	UGL UGL UGL UGL UGL UGL UGL UGL UGL	N N N R R R R R R R	10.000 10.000 10.000
С6Н6		3.6	UGL	R	

Site Identification: WELL 02510

Sample Date: 04/27/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8
Analysis Number: QGJ004 Lab Number: -STFP#63

Test Name	Corrected	Value	Units	FC	QC	QC	Spike
CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5	LT ND LT LT LT LT LT	4.9 5.0 1.7 3.5 5.6 3.7 3.7	UGL UGL UGL UGL UGL UGL UGL	R	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		
MEC6H5 MIBK TCLEE TRCLE XYLEN	LT LT LT LT LT	3.5 1.2 2.9 2.0 2.4	UGL UGL UGL UGL UGL		R R R R		

Site Identification: WELL 02511

Sample Date: 04/27/90

Depth(ft): Method: UU8 0.0 Sampling Technique: P

Analysis Number: QGJ005 Lab Number: -STFP#64

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Test Name	Corrected	Value	<u>Units</u>	FC	QC	QC	Spike	
Name 111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4	LT LT LT LT	Value 2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9 5.0 1.7 1.8 5.6 3.7 2.4 3.5 1.2 2.9 2.0 2.4 12.	Units UGL	<u>FC</u>	<u>QC</u>		Spike	
CD2CL2 ETBD10		11. 9.2	UGL UGL		N N		0.000	

Site Identification: WELL 02512

Sample Date: 04/27/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGJ006 Lab Number: -STFP#65

Test							
Name	Corrected	l Value	Units	FC	QC	QC	Spike
111TCE	LT	2 4	1101				
1111CE 112TCE	LT	2.4	UGL				
11DCLE	LT	1.6	UGL				
12DCE		1.4	UGL				
	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD C6H6	LT	1.8	UGL				
CCL4	LT	2.7 4.9	UGL				
CH2CL2	LT		UGL	_			
CHCL3	LT	7.1 1.7	UGL	R			
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		11.	UGL		N	1	10.000
CD2CL2		9.3	UGL		N		10.000
ETBD10		9.3	UGL		N		10.000
		J	001		7.4	-	10.000

Method: UU8

Analysis Number: QGJ007 Lab Number: -STFP#66

<u>Name</u>	Corrected	l Value	Units	FC	QC	QC Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6	LT LT LT LT LT LT LT	12. 9.0 8.0 2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7	UGL UGL UGL UGL UGL UGL UGL UGL UGL		N N T T T T T T T T T T T T T T T T T T	10.000 10.000 10.000

Site Identification: WELL 02512

Sample Date: 04/27/90
Depth(ft): 0.0
Method: UU8 Sampling Technique: P

Analysis Number: QGJ007 Lab Number: -STFP#66

Test Name	Corrected	Value	Units	FC	<u>QC</u>	QC	Spike
CCL4	LT	4.9	UGL		T		
CH2CL2	ND	5.0	UGL	R	\mathbf{T}		
CHCL3	LT	1.7	UGL		T		
CLC6H5	LT	1.8	UGL		T		
DBCP	LT	5.6	UGL		${f T}$		
DCPD	LT	3.7	UGL		\mathbf{T}		
DMDS	LT	3.7	UGL		T		
ETC6H5	LT	2.4	UGL		\mathbf{T}		
MEC6H5	LT	3.5	UGL		\mathbf{T}		
MIBK	LT	1.2	UGL		\mathbf{T}		
TCLEE	LT	2.9	UGL		T		
TRCLE	LT	2.0	UGL		T		
XYLEN	LT	2.4	UGL		${f T}$		

Site Identification: WELL 02561

Sample Date: 03/26/90
Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: GSX006 Lab Number: -STFP#13

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Test	G		**- 1	** * 1				
Name	Corre	ctea	Value	Units	F.C.	<u>QC</u>	QC	Spike
111								
111TCE	LT		2.4	UGL				
112TCE	LT		1.6	UGL				
11DCLE	LT		1.4	UGL				
12DCE	LT		3.2	UGL				
12DCLE	LT	(72	UGL				
13DMB	LT		2.9	UGL				
BCHPD	LT		1.8	UGL				
C6H6		3000	00.	UGL				
CCL4	LT		4.9	UGL				
CH2CL2	ND		5.0	UGL	R			
CHCL3	LT		1.7	UGL				
CLC6H5			15.	UGL				
DBCP	LT		5.6	UGL				
DCPD	LT		3.7	UGL				
DMDS	LT		3.7	UGL				
ETC6H5			9.6	UGL				
MEC6H5	LT		3.5	UGL				
MIBK	LT		1.2	UGL				
TCLEE	LT		2.9	UGL				
TRCLE	LT		2.0	UGL				
XYLEN	LT		2.4	UGL				
12DCD4	LT		2.6	UGL		N	1	10.000
CD2CL2			9.0	UGL		N		10.000
ETBD10			12.	UGL		N	1	10.000

Site Identification: WELL 02562

0.0 Sampling Technique: P

Sample Date: 04/04/90
Depth(ft): 0.0 Samp
Method: UU8
Analysis Number: QGE006 Lab Number: -STFP#49

Test Name	Corre	cted Value	Units	FC	QC	QC	Spike	
111TCE	LT	2.4	UGL					
112TCE	LT	1.6	UGL					
11DCLE	LT	1.4	UGL					
12DCE	LT	3.2	UGL					
12DCLE	LT	0.72	UGL					
13DMB		5.7	UGL					
BCHPD	LT	1.8	UGL					
C6H6		800000.	UGL					
CCL4	LT	4.9	UGL					
CH2CL2	ND	5.0	UGL	R				
CHCL3	LT	1.7	UGL					
CLC6H5	GT	160.	UGL					
DBCP	LT	5.6	UGL					
DCPD		29.	UGL					
DMDS	LT	3.7	UGL					
ETC6H5		16.	UGL					
MEC6H5		24.	UGL					
MIBK	LT	1.2	UGL					
TCLEE		4.8	UGL					
TRCLE	LT	2.0	UGL					
XYLEN		12.	UGL					
12DCD4	LT	2.6	UGL		N		10.000	
CD2CL2		9.9	UGL		N		10.000	
ETBD10		12.	UGL		N	1	10.000	

Site Identification: WELL 02572

Sample Date: 03/20/90
Depth(ft): 0.0 Sampling Technique: B
Method: UU8

Analysis Number: GSW003 Lab Number: K-STFP#1

<u>Name</u>	Corrected	d Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE		11.	UGL				
12DCE		3.5	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6	LT	2.7	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5		15.	UGL				
DBCP	LT	5.6	UGL				
DCPD		20.	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE		2.3	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		11.	UGL		N		10.000
CD2CL2		10.	UGL		N		10.000
ETBD10		11.	UGL		N	1	10.000

Site Identification: WELL 02574

Sample Date: 03/21/90
Depth(ft): 0.0
Method: UU8 Sampling Technique: P

Analysis Number: GSW006 Lab Number: K-STFP#4

Corrected	Value	Units	FC	<u>QC</u>	QC	Spike
T m	2 1	HCI				
ьт						
LT						
LT		UGL				
ND		UGL	R			
LT	1.7	UGL				
	82.	UGL				
LT	5.6	UGL				
	5.5	UGL				
LT	3.7	UGL				
	2.4	UGL				
	1.2					
I.T						
				N	1	10.000
						10.000
						0.000
	LT LT LT LT LT LT LT LT	LT 1.6 17. 3.7 LT 0.72 LT 2.9 LT 1.8 LT 2.7 LT 4.9 ND 5.0 LT 1.7 82. LT 5.6 5.5 LT 3.7 LT 2.4 LT 2.4 LT 2.9 2.9	LT 2.4 UGL LT 1.6 UGL 17. UGL 3.7 UGL 3.7 UGL LT 0.72 UGL LT 2.9 UGL LT 2.7 UGL LT 4.9 UGL LT 4.9 UGL LT 1.7 UGL 82. UGL LT 5.6 UGL LT 5.6 UGL LT 3.7 UGL LT 3.7 UGL LT 2.4 UGL LT 2.9 UGL LT 2.9 UGL LT 2.9 UGL LT 1.2 UGL LT 2.9 UGL LT 2.9 UGL 11. UGL	LT 2.4 UGL 17. UGL 17. UGL 3.7 UGL 2.9 UGL LT 2.9 UGL LT 2.7 UGL LT 4.9 UGL LT 4.9 UGL ND 5.0 UGL LT 1.7 UGL 82. UGL LT 5.6 UGL LT 5.6 UGL LT 2.4 UGL LT 2.4 UGL LT 2.9 UGL LT 2.9 UGL LT 2.9 UGL LT 3.5 UGL LT 2.9 UGL LT 2.9 UGL LT 1.2 UGL LT 2.9 UGL 11. UGL	LT 2.4 UGL LT 1.6 UGL 17. UGL 3.7 UGL LT 0.72 UGL LT 2.9 UGL LT 2.7 UGL LT 4.9 UGL LT 4.9 UGL ND 5.0 UGL R LT 1.7 UGL 82. UGL LT 5.6 UGL LT 5.6 UGL LT 3.7 UGL LT 3.7 UGL LT 2.4 UGL LT 2.9 UGL LT 2.9 UGL LT 2.9 UGL LT 1.2 UGL LT 2.9 UGL LT 2.9 UGL LT 2.9 UGL LT 2.9 UGL 11. UGL N 11. UGL N	LT 2.4 UGL LT 1.6 UGL 3.7 UGL 3.7 UGL LT 0.72 UGL LT 2.9 UGL LT 2.7 UGL LT 4.9 UGL LT 4.9 UGL ND 5.0 UGL LT 1.7 UGL 82. UGL LT 5.6 UGL LT 3.7 UGL LT 3.7 UGL LT 3.7 UGL LT 2.4 UGL LT 2.9 UGL LT 2.4 UGL LT 2.9 UGL LT 3.5 UGL LT 3.5 UGL LT 3.5 UGL LT 3.7 UGL

Site Identification: WELL 02575

Sample Date: 03/22/90
Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: GSW010 Lab Number: K-STFP#8

Test								
Name	Corrected	l Value	Units	FC	QC	QC	Spike	
111TCE	LT	2.4	UGL					
112TCE	LT	1.6	UGL					
11DCLE		46.	UGL					
12DCE		9.7	UGL					
12DCLE	LT	0.72	UGL					
13DMB	LT	2.9	UGL					
BCHPD	LT	1.8	UGL					
С6Н6		300.	UGL					
CCL4	LT	4.9	UGL					
CH2CL2	ND	5.0	UGL	R				
CHCL3	LT	1.7	UGL					
CLC6H5		200.	UGL					
DBCP	LT	5.6	UGL					
DCPD	LT	3.7	UGL					
DMDS	LT	3.7	UGL					
ETC6H5	LT	2.4	UGL					
MEC6H5	LT	3.5	UGL					
MIBK	LT	1.2	UGL					
TCLEE	LT	2.9	UGL					
TRCLE		4.9	UGL					
XYLEN	LT	2.4	UGL					
12DCD4		11.	UGL		N		10.000	
CD2CL2		10.	UGL		N		10.000	
ETBD10		9.3	UGL		N		10.000	

Site Identification: WELL 02576

Sample Date:
Depth(ft):
Method: UU8 03/27/90 Sampling Technique: P

Analysis Number: GSY003 Lab Number: -STFP#17

Test Name	Correct	ed Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6		9000.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		8.9	UGL		N		10.000
CD2CL2		9.6	UGL		N		10.000
ETBD10		9.6	UGL		N]	10.000

Site Identification: WELL 02577

Sample Date: 03/27/90
Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: GSY004 Lab Number: -STFP#18

Test							
Name	Corrected	l Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE		58.	UGL				
12DCE		12.	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6		38.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3		61.	UGL				
CLC6H5		4.1	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
мес6н5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE		2.4	UGL				
TRCLE XYLEN	LT	3.2	UGL				
12DCD4	ΓŢ	2.4 11.	UGL UGL		N		10 000
CD2CL2		9.7	UGL				10.000 10.000
ETBD10		10.	UGL		N		
PIDDIO		T U .	100		N		10.000

Site Identification: WELL 02578

Sample Date: 03/22/90
Depth(ft): 0.0 Sampling Technique: P
Method: UU8

Analysis Number: GSW011 Lab Number: K-STFP#9

Test Name	Corrected	l Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE		30.	UGL				
12DCE		6.1	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6		13.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3		3.4	UGL				
CLC6H5		41.	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE		1.9	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		11.	UGL		N		0.000
CD2CL2		11.	UGL		N		0.000
ETBD10		8.8	UGL		N	1	.0.00

Method: UU8

Analysis Number: GSX003 Lab Number: -STFP#10

Test Name	Corrected	Value	Units FC	QC QC Spike	
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCE	LT LT LT	9.9 11. 11. 2.4 1.6 1.4	UGL UGL UGL UGL UGL UGL	N 10.000 N 10.000 N 10.000 T T	
12DCLE 13DMB BCHPD C6H6	LT LT LT LT	0.72 2.9 1.8 2.7	UGL UGL UGL	T T T	

Site Identification: WELL 02578

Sample Date: 03/22/90
Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: GSX003 Lab Number: -STFP#10

Test Name	Corrected	Value	Units	FC	QC	QC	Spike
CCL4	LT	4.9	UGL		T		
CH2CL2	ND	5.0	UGL	R	${f T}$		
CHCL3	LT	1.7	UGL		${f T}$		
CLC6H5	LT	1.8	UGL		T		
DBCP	LT	5.6	UGL		${f T}$		
DCPD	LT	3.7	UGL		${f T}$		
DMDS	LT	3.7	UGL		${f T}$		
ETC6H5	LT	2.4	UGL		T		
MEC6H5	LT	3.5	UGL		\mathbf{T}		
MIBK	LT	1.2	UGL		\mathbf{T}		
TCLEE	LT	2.9	UGL		T		
TRCLE	LT	2.0	UGL		\mathbf{T}		
XYLEN	LT	2.4	UGL		\mathbf{T}		

Site Identification: WELL 02579

Sample Date: 03/21/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: GSW007 Lab Number: K-STFP#5

Test								
Name	Correc	ted Value	Units	FC	QC	QC	Spike	
111TCE	LT	2.4	UGL					
112TCE	LT	1.6	UGL					
11DCLE		38.	UGL					
12DCE		9.7	UGL					
12DCLE	LT	0.72	UGL					
13DMB	LT	2.9	UGL					
BCHPD	LT	1.8	UGL					
C6H6	LT	2.7	UGL					
CCL4	LT	4.9	UGL					
CH2CL2	ND	5.0	UGL	R				
CHCL3	LT	1.7	UGL	••				
CLC6H5		1000.	UGL					
DBCP	LT	5.6	UGL					
DCPD	LT	3.7	UGL					
DMDS	LT	3.7	UGL					
ETC6H5	LT	2.4	UGL					
MEC6H5	LT	3.5	UGL					
MIBK	LT	1.2	UGL					
TCLEE		2.4	UGL					
TRCLE		4.5	UGL					
XYLEN	LT	2.4	UGL					
12DCD4		11.	UGL]	N	1	0.000	
CD2CL2		10.	UGL]	N		0.000	
ETBD10		10.	UGL	i	N		0.000	

Site Identification: WELL 02580

Sample Date: 03/22/90
Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: GSX004 Lab Number: -STFP#11

Test Name	Corrected	d Value	<u>Units</u>	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE		3.5	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6		21.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5		9.4	UGL				
DBCP	LT	5.6	UGL				
DCPD		8.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE		3.3	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL		2.7	-	
12DCD4		10.	UGL		N		LO.000
CD2CL2		10.	UGL		N		10.000
ETBD10		11.	UGL		N		10.000

Site Identification: WELL 02581

Sample Date: 03/20/90

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSW004 Lab Number: K-ST Lab Number: K-STFP#2

Test							
Name	Corrected	d Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE		9.2	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6	LT	2.7	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5		3.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE		2.4	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		11.	UGL		N	1	0.000
CD2CL2		12.	UGL		N	1	0.000
ETBD10		9.7	UGL		N	1	0.000

Site Identification: WELL 02582

Sample Date: 03/20/90

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSW005 Lab Number: K-STFP#3

Test Name	Corrected	Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE		5.7	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6	LT	2.7	UGL				
CCL4	LT	4.9	UGL	_			
CH2CL2		44.	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5		16.	UGL				
DBCP	LT	5.6	UGL				
DCPD		6.6	UGL UGL				
DMDS	LT	3.7 2.4	UGL				
ETC6H5	LT	3.5	UGL				
MEC6H5	LT LT	1.2	UGL				
MIBK TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		12.	UGL		N		10.000
CD2CL2		10.	UGL		N		10.000
ETBD10		10.	UGL		N		10.000

Site Identification: WELL 02583

03/21/90

Sample Date:
Depth(ft):
Method: UU8 0.0 Sampling Technique: P

Analysis Number: GSW008 Lab Number: K-STFP#6

Test							
Name	Correct	ted Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE		9.8	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD		12.	UGL				
С6Н6		20000.	UGL				
CCL4	LT	4.9	UGL	_			
CH2CL2	ND	5.0	UGL	R			
CHCL3 CLC6H5		19. 300.	UGL UGL				
DBCP	LT	5.6	UGL				
DCPD	шт	19.	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE		4.3	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4	LT	2.6	UGL		N		10.000
CD2CL2		8.9	UGL		N		10.000
ETBD10		9.7	UGL		N]	10.000

Method: UU8

Analysis Number: GSW009 Lab Number: K-STFP#7

Test Name	Corrected	Value	Units	FC	<u>QC</u>	QC Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6	LT LT LT LT LT LT LT	12. 11. 9.8 2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7	UGL UGL UGL UGL UGL UGL UGL UGL UGL UGL		N N T T T T T	10.000 10.000 10.000

Site Identification: WELL 02583

Sample Date: 03/21/90
Depth(ft): 0.0 Sampling Technique: P
Method: UU8

Analysis Number: GSW009 Lab Number: K-STFP#7

Test							
Name	Corrected	Value	Units	FC	QC	QC	Spike
CCL4	LT	4.9	UGL		\mathbf{T}		
CH2CL2	ND	5.0	UGL	R	\mathbf{T}		
CHCL3	LT	1.7	UGL		\mathbf{T}		
CLC6H5	LT	1.8	UGL		\mathbf{T}		
DBCP	LT	5.6	UGL		T		
DCPD	LT	3.7	UGL		\mathbf{T}		
DMDS	LT	3.7	UGL		T		
ETC6H5	LT	2.4	UGL		\mathbf{T}		
MEC6H5	LΤ	3.5	UGL		T		
MIBK	LT	1.2	UGL		T		
TCLEE	LT	2.9	UGL		T		
TRCLE	LT	2.0	UGL		T		
XYLEN	LT	2.4	UGL		T		

Site Identification: WELL 02584

Sample Date: 03/27/90

Depth(ft): Sampling Technique: P 0.0

Method: UU8
Analysis Number: GSY005 Lab Number: -STFP#19

Test Name	Correct	ted Value	Units	FC	QC	QC	Spike	
	Correct LT	2.4 1.6 1.4 3.2 0.72 2.9 1.8 80000. 4.9 5.0 1.7 2.8 5.6 3.7 3.7 2.4 3.5 1.2	Units UGL	FC R	QC	QC	Spike	
TCLEE TRCLE	LT LT	2.9	UGL UGL					
XYLEN 12DCD4 CD2CL2 ETBD10	LT LT	2.4 2.6 9.8 10.	UGL UGL UGL UGL		N N N	1	10.000 10.000 10.000	

Method: UU8

Analysis Number: GSY007 Lab Number: -STFP#21

Test Name	Corrected	Value	Units FC	QC Q	C Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCE	LT LT LT LT	11. 10. 8.5 2.4 1.6 1.4	UGL UGL UGL UGL UGL UGL UGL	N N T T	10.000 10.000 10.000
12DCLE 13DMB BCHPD C6H6	LT LT LT LT	0.72 2.9 1.8 2.7	UGL UGL UGL	T T T	

Site Identification: WELL 02584

Sample Date: 03/27/90
Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: GSY007 Lab Number: -STFP#21

Test							
Name	Corrected	Value	Units	FC	QC	QC	Spike
CCL4	LT	4.9	UGL		\mathbf{T}		
CH2CL2	ND	5.0	UGL	R	\mathbf{T}		
CHCL3	LT	1.7	UGL		\mathbf{T}		
CLC6H5	LT	1.8	UGL		\mathbf{T}		
DBCP	LT	5.6	UGL		\mathbf{T}		
DCPD	LT	3.7	UGL		T		
DMDS	LT	3.7	UGL		\mathbf{T}		
ETC6H5	LT	2.4	UGL		T		
MEC6H5	LT	3.5	UGL		T		
MIBK	LT	1.2	UGL		\mathbf{T}		
TCLEE	LT	2.9	UGL		\mathbf{T}		
TRCLE	LT	2.0	UGL		\mathbf{T}		
XYLEN	LT	2.4	UGL		T		

Site Identification: WELL 02585

Sample Date: 03/26/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: GSX007 Lab Number: -STFP#14

Test								
Name	Correct	ed Value	Units	\underline{FC}	<u>QC</u>	QC	Spike	
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP	LT	2.4 1.6 1.4 3.2 0.72 2.9 1.8 1000. 4.9 5.0 1.7 1.8 5.6 3.7	UGL	<u>FC</u>	<u>QC</u>	QC	Spike	
DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	LT LT LT LT LT LT LT	3.7 2.4 3.5 1.2 2.9 2.0 2.4 10. 9.1	UGL UGL UGL UGL UGL UGL UGL UGL UGL		N N	1	0.000	

Sample Date: 05/02/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGK010 Lab Number: -STFP#83

Test Name	Corrected	d Value	<u>Units</u>	FC	QC	QC	Spike
111TCE 112TCE 11DCLE 12DCE 12DCLE	LT LT LT LT	2.4 1.6 1.4 3.2 0.72	UGL UGL UGL UGL				
13DMB BCHPD C6H6 CCL4	LT LT LT LT	2.9 1.8 2.7 4.9	UGL UGL UGL UGL				

Site Identification: WELL 02585

Sample Date: 05/02/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8
Analysis Number: QGK010 Lab Number: -STFP#83

CH2CL2 ND 5.0 UGL R CHCL3 LT 1.7 UGL CLC6H5 LT 1.8 UGL DBCP LT 5.6 UGL DCPD LT 3.7 UGL DMDS LT 3.7 UGL ETC6H5 LT 2.4 UGL MEC6H5 LT 3.5 UGL MIBK LT 1.2 UGL TCLEE LT 2.9 UGL TRCLE LT 2.0 UGL XYLEN LT 2.4 UGL 12DCD4 CD2CL2 8.0 UGL N 10.000	Test Name	Corrected	Value	<u>Units</u>	FC	<u>QC</u>	QC	Spike	
ETBD10 8.7 UGL N 10.000	CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4	LT	1.7 1.8 5.6 3.7 3.7 2.4 3.5 1.2 2.9 2.0 2.4 11.	UGL	R		:		

Method: UU8

Analysis Number: QGK011 Lab Number: -STFP#84

Test Name	Corrected	d Value	Units	FC	QC	QC Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCLE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5	LT LT LT LT LT LT LT LT LT LT LT	12. 11. 8.3 2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9 5.4 1.7 1.8 5.6 3.7 2.4 3.5	UGL	R		10.000 10.000 10.000

Site Identification: WELL 02585

05/02/90 Sample Date:

Depth(ft): 0.0 Sampling Technique: P

Analysis Number: QGK011 Lab Number: -STFP#84

Test Name	Corrected	Value	<u>Units</u>	FC	QC	QC	Spike
MIBK TCLEE TRCLE XYLEN	LT LT LT LT	1.2 2.9 2.0 2.4	UGL UGL UGL UGL		T T T		

Site Identification: WELL 02596

Sample Date: 03/26/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: GSX008 Lab Number: -STFP#15

Test Name	Corrected	. Waluo	Unita	E.C.	0.0	00	Spike
Name	COLLECTED	value	UIIICS	10	<u>QC</u>	<u>QC</u>	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6		600.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		10.	UGL		N		10.000
CD2CL2		8.7	UGL		N		10.000
ETBD10		10.	UGL		N		10.000

Method: UU8

Analysis Number: GSX009 Lab Number: -STFP#16

Test Name	Corrected	Value	Units	FC	<u>QC</u>	QC Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6	LT LT LT LT LT LT LT	11. 9.1 9.6 2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7	UGL UGL UGL UGL UGL UGL UGL UGL UGL UGL		N N T T T T T	10.000 10.000 10.000

Site Identification: WELL 02596

03/26/90 Sample Date:

Sampling Technique: P 0.0 Depth(ft):

Method: UU8

Analysis Number: GSX009 Lab Number: -STFP#16

Test Name	Corrected	Value	<u>Units</u>	FC	<u>QC</u>	QC	Spike
CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN	LT ND LT	4.9 5.0 1.7 1.8 5.6 3.7 3.7 2.4 3.5 1.2 2.9 2.0 2.4	UGL	R	T T T T T T T T T T T T T T T T T T T		

Sample Date: 05/01/90

Depth(ft): 0.0 Sampl: Method: UU8

Analysis Number: QGK007 Sampling Technique: P

Lab Number: -STFP#80

Test Name	Corrected	l Value	Units	<u>FC</u>	QC	QC	Spike
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE	LT LT LT LT LT LT LT LT LT LT LT LT LT	2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9 5.5 1.7 1.8 5.6 3.7 2.4 3.5 1.2 2.9 2.0	UGL	R			

Site Identification: WELL 02596

Sample Date: 05/01/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGK007 Lab Number: -STFP#80

Test Name	Corrected	Value	Units	FC	QC	QC Spike
XYLEN 12DCD4 CD2CL2 ETBD10	LT	2.4 11. 8.6 9.5	UGL UGL UGL		N N	10.000 10.000 10.000

Site Identification: WELL 02598

Sample Date: 03/27/90

Depth(ft): Sampling Technique: P 0.0

Method: UU8

Analysis Number: GSY006 Lab Number: -STFP#20

Test							
Name	Corrected	l Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE		64.	UGL				
12DCE		15.	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
С6Н6		90.	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3		300.	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE		3.8	UGL				
XYLEN	LT	2.4	UGL		N.T		10 000
12DCD4		11. 11.	UGL		N		10.000
CD2CL2			UGL		N		10.000
ETBD10		10.	UGL		N	-	10.000

Sample Date: 04/30/90
Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGI003 Lab Number: -STFP#72

Test Name	Corrected	d Value	Units	FC	QC	QC	Spike
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4	LT LT LT LT LT LT	2.4 1.6 57. 15. 0.72 2.9 1.8 2.7	UGL UGL UGL UGL UGL UGL UGL UGL				

Site Identification: WELL 02598

Sample Date: 04/30/90

Depth(ft): 0.0 Sampling Technique: P

Method: UU8

Analysis Number: QGI003 Lab Number: -STFP#72

Test Name	Corrected	Value	Units	FC	QC	QC	Spike
CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	ND LT	5.0 60. 1.8 5.6 3.7 2.4 3.5 1.2 2.9 3.0 2.4 11.7.7 8.1	UGL	R	N N	1	.0.000 .0.000

STFP: Selected Metals and Inorganics Hunter/ESE, Inc.
Project Number 6902010-0305

R - Rinse Blank D - Duplicate

APPENDIX B

Groundwater Quality Data - Fall 1989

The data presented herein has been forwarded to PMRMA for review, approval, and upload into the RMA Database. The concentration values presented herein are correct for moisture, dilution, accuracy, and number of significant figures. Please note, however, that this data has not been formally approved by PMRMA and is subject to change.

- Flagging Code Descriptions: FC field: (D) duplicate (C) confirmed (R) analyte not certified
 - (U) unconfirmed (G) quantitation questionable
- QC field: (F) field blank (M) method blank (N) natural matrix spike
 - (R) rinse blank (S) standard spike (T) trip blank

Pertinent Installation Restoration Data Management System Information: INSTALLATION: RK LABORATORY: ED FILE: CGW PROGRAM: LIT

Site Identification: WELL 01028

Sample Date: 11/10/89

Depth(ft): 0.0 Sampling Technique: B

Method: QQ8

Analysis Number: GGX005 Lab Number: PLUME#25

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Method: VV8

Analysis Number: GHW020 Lab Number: PLUME#25

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: NN8

Analysis Number: GJT005 Lab Number: PLUME#25

Test

Test

Name Corrected Value Units FC QC QC Spike

CL 270000. UGL F LT 10000. UGL SO4 2100000. UGL

Method: MM8A

Analysis Number: GPU010 Lab Number: PLUME#25

 Name
 Corrected Value
 Units
 FC
 QC
 QC
 Spike

 ALDRN
 LT
 0.0830
 UGL

 CL6CP
 LT
 0.0830
 UGL

 CLDAN
 LT
 0.152
 UGL

 CLDAN
 LT
 0.152
 UGL

 DLDRN
 0.123
 UGL
 C

 ENDRN
 0.196
 UGL
 C

 ISODR
 LT
 0.0560
 UGL

PPDDE LT 0.0460 UGL PPDDT LT 0.0590 UGL

Site Identification: WELL 01028

Sample Date: 11/10/89

Depth(ft): 0.0 Sampling Technique: B

Analysis Number: GSL006 Lab Number: PLUME#25

Allalysis	Number:	GST000	ьар	Nui	ubei	:	PLUME#	45
Test								
Name	Corrected	Value	Units	FC	QC	OC	Spike	
111TCE	LT	2.4	UGL					
112TCE	LT	1.6	UGL					
11DCLE	LT	1.4	UGL					
12DCE	LT	3.2	UGL					
12DCLE	LT	0.72	UGL					
13DMB	LT	2.9	UGL					
BCHPD	LT	1.8	UGL					
C6 H 6	LT	2.7	UGL					
CCL4	LT	4.9	UGL					
CH2CL2	ND	5.0	UGL	R				
CHCL3	LT	1.7	UGL					
CLC6H5	LT	1.8	UGL					
DBCP	LT	5.6	UGL					
DCPD	LT	3.7	UGL					
DMDS	LT	3.7	UGL					
ETC6H5	LT	2.4	UGL					
MEC6H5	LT	3.5	UGL					
MIBK	LT	1.2	UGL					
TCLEE	LT	2.9	UGL					
TRCLE	LT	2.0	UGL					
XYLEN	LT	2.4	UGL					
12DCD4		12.	UGL		N		0.000	
CD2CL2 ETBD10		12.	UGL		N		0.000	
FIRDIO		11.	UGL		N	1	.0.000	
Method:	8WW							
Analysis		GWJ005	Lab	Mun	aber		PLUME#	2 =
111141 y 313	TAGINDET.	3110003	цар	Mul	ine I	•	E DONE #	23
Test								
Name	Corrected	Value	<u>Units</u>	FC	OC	OC	Spike	
						~ -		

LT 0.500 UGL

HG

Site Identification: WELL 01028

Sample Date: 11/10/89

Depth(ft): 0.0 Sampling Technique: B

Method: PP8A
Analysis Number: QBA010 Lab Number: PLUME#25

Test Name	Correcte	d Value	Units	FC	<u>QC</u>	QC	Spike
BTZ CPMS CPMSO CPMSO2 DITH DMDS OXAT	LT LT LT LT LT LT LT	1.14 1.08 1.98 2.24 3.34 1.16 1.35	UGL UGL UGL UGL UGL UGL UGL				

Site Identification: WELL 01049

Sample Date: 11/10/89

Depth(ft): 0.0 Sampling Technique:

Method: QQ8

Analysis Number: GGX006 Lab Number: PLUME#26

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL 16.3 DMMP LT UGL

8VV Method:

Analysis Number: GHW021 Lab Number: PLUME#26

Test

Name Corrected Value Units FC QC QC Spike

AS LT2.50 UGL

Method: NN8

Analysis Number: GJT006 Lab Number: PLUME#26

Test

Name Corrected Value Units FC QC QC Spike

CL 70000. UGL 10000. F LT UGL SO4 73000. UGL

Method: A8MM

Analysis Number: GPU011 Lab Number: PLUME#26

Test

Name Corrected Value Units FC QC QC Spike ALDRN LT0.0830 UGL CL6CP 0.0830 LTUGL CLDAN 0.152 LTUGL DLDRN 0.147 UGL C ENDRN 0.171 C UGL LT0.0560 ISODR UGL PPDDE LT0.0460 UGL PPDDT LT 0.0590 UGL

Site Identification: WELL 01049

Sample Date: 11/10/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSL007 Lab Number: PLUME#26

Test Name	Corrected	Value	Units	FC	QC	QC	Spike
111TCE 112TCE 11DCLE 12DCLE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	LT LT LT LT LT LT LT LT LT LT LT LT LT L	2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9 5.0 1.7 1.8 5.6 3.7 2.4 3.5 1.2 2.9 2.0 2.4 11.	UGL	R	N N		10.000 10.000 10.000

Method: UU8

Analysis Number: GSL008 Lab Number: PLUME#27

Test Name	Corrected	Value	<u>Units</u>	FC	<u>QC</u>	QC Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6	LT LT LT LT LT LT LT	10. 12. 10. 2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7	UGL UGL UGL UGL UGL UGL UGL UGL UGL		N N T T T T T	10.000 10.000 10.000

Site Identification: WELL 01049

Sample Date: 11/10/89

Depth(ft): 0.0 Sampling Technique:

Method: UU8

Analysis Number: GSL008 Lab Number: PLUME#27

Test Name	Corrected	Value	<u>Units</u>	FC	QC	QC	Spike	
CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN	LT ND LT	4.9 5.0 1.7 1.8 5.6 3.7 2.4 3.5 1.2 2.9 2.0 2.4	UGL	R	TTTTTTTTTTT			

Method: WW8

Analysis Number: GWJ006 Lab Number: PLUME#26

Test

Name Corrected Value Units FC QC QC Spike

HG LT 0.500 UGL

Method: PP8A

Analysis Number: QBA011 Lab Number: PLUME#26

Test Corrected Value Units FC QC QC Spike Name BTZ LT1.14 UGL 1.08 CPMS LT UGL 1.98 LTCPMSO UGL CPMSO2 LT2.24 UGL 3.34 DITH LTUGL LT 1.16 DMDS UGL OXAT LT1.35 UGL

Site Identification: WELL 01050

Sample Date: 11/13/89

Depth(ft): 0.0 Sampling Technique: B

Method: QQ8

Analysis Number: GGX009 Lab Number: PLUME#31

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Method: VV8

Analysis Number: GHW024 Lab Number: PLUME#31

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: NN8

Analysis Number: GJT009 Lab Number: PLUME#31

Test

Name Corrected Value Units FC QC QC Spike

CL 55000. UGL F LT 10000. UGL SO4 490000. UGL

Method: MM8A

Analysis Number: GPV005 Lab Number: PLUME#31

Test Corrected Value Units FC QC QC Spike Name 0.105 UGL C ALDRN 0.0830 LTUGL CL6CP CLDAN LT 0.152 UGL DLDRN 0.368 UGL C 0.607 UGL C . ENDRN LT 0.0560 UGL ISODR LT0.0460 UGL PPDDE 0.0590 LT UGL PPDDT

Site Identification: WELL 01050

Sample Date: 11/13/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSK003 Lab Number: PLUME#31

						-		
Test	Corroct	ed Value	Ilnita	FC	0.0	00	Cnile	
Name	COLLECCE	ed value	Units	<u>r C</u>	<u> </u>	<u>QC</u>	Spike	
111TCE	LT	2.4	UGL					
112TCE	LT	1.6	UGL					
11DCLE	LT	1.4	UGL					
12DCE	LT	3.2	UGL					
12DCLE	LT	0.72	UGL					
13DMB	LT	2.9	UGL					
BCHPD	LT	1.8	UGL					
C6H6	LT	2.7	UGL					
CCL4	LT	4.9	UGL					
CH2CL2	ND	5.0	UGL	R				
CHCL3	LT	1.7	UGL					
CLC6H5	LT	1.8	UGL					
DBCP	LT	5.6	UGL					
DCPD	LT	3.7	UGL					
DMDS	LT	3.7	UGL					
ETC6H5	LT	2.4	UGL					
MEC6H5	LT	3.5	UGL					
MIBK	LT	1.2	UGL					
TCLEE	LT	2.9	UGL					
TRCLE	LT	2.0	UGL					
XYLEN	LT	2.4	UGL					
12DCD4		11.	UGL		N		10.000	
CD2CL2		10.	UGL		N		10.000	
ETBD10		9.8	UGL		N]	L0.000	
Method:	ww8							
Analysis	Number:	GWJ009	Lab	Nun	iher		PLUME#	2 1
	1.0111001	3,,,,,,,,	100	11411		- •	I HOME#	J <u>T</u>
Test								
			_					

Corrected Value Units FC QC QC Spike Name LT 0.500 UGL HG

Site Identification: WELL 01050

Sample Date: 11/13/89

Depth(ft): 0.0 Sampling Technique: B

Method: PP8A

Analysis Number: QBB005 Lab Number: PLUME#31

Test Name	Correc	cted Value	<u>Units</u>	FC	<u>QC</u>	QC	Spike
BTZ CPMS CPMSO CPMSO2 DITH DMDS OXAT	LT LT LT LT LT LT LT	1.14 1.08 1.98 2.24 3.34 1.16 1.35	UGL UGL UGL UGL UGL UGL UGL				

Site Identification: WELL 01560

11/13/89 Sample Date:

Depth(ft): 0.0 Sampling Technique:

Method: QQ8 Analysis Number: GGX010 Lab Number: PLUME#32

Test

Name Corrected Value Units FC QC QC Spike

LT 10.1 DIMP UGL 16.3 DMMP LTUGL

8VV Method:

Analysis Number: GHW025 Lab Number: PLUME#32

Test

Corrected Value Name Units FC QC QC Spike

AS LT2.50 UGL

Method: NN8

Analysis Number: GJT010 Lab Number: PLUME#32

Test

Name Corrected Value Units FC QC QC Spike

· CL 600000. UGL 10000. LT UGL SQ4 140000. UGL

Method: A8MM

Analysis Number: GPV006 Lab Number: PLUME#32

Test

Name Corrected Value Units FC QC QC Spike 0.0830 ALDRN LTUGL 0.0830 CL6CP LT UGL CLDAN LT 0.152 UGL 0.0792 DLDRN UGL C 0.122 ENDRN UGL C 0.0560 ISODR LT UGL LT0.0460 PPDDE UGL LT0.0590 PPDDT UGL

Site Identification: WELL 01560

Sample Date: 11/13/89
Depth(ft): 0.0 Sampling Technique: B

Method: UU8 Analysis Number: GSK004 Lab Number: PLUME#32

Test			
Name	Corrected Valu	e Units FC QC QC Spike	
111TCE	LT 2.4	UGL	
112TCE	LT 1.6	UGL	
11DCLE	LT 1.4	UGL	
12DCE	LT 3.2	UGL	
12DCLE	LT 0.72	UGL	
13DMB	LT 2.9	UGL	
BCHPD	LT 1.8	UGL	
C6H6	10000. LT 4.9	UGL	
CCL4		UGL UGL R	
CH2CL2		UGL	
CHCL3		UGL	
CLC6H5		UGL	
DBCP	LT 5.6 LT 3.7	UGL	
DCPD DMDS	LT 3.7	UGL	
ETC6H5	LT 2.4	UGL	
MEC6H5	LT 3.5	UGL	
MIBK	LT 1.2	UGL	
TCLEE	LT 2.9	UGL	
TRCLE	LT 2.0	UGL	
XYLEN	LT 2.4	UGL	
12DCD4	5.7	UGL N 10.000	
CD2CL2	11.	UGL N 10.000	
ETBD10	9.9	UGL N 10.000	
	3.3		

Method: UU8

Analysis Number: GSK005 Lab Number: PLUME#33

Test Name	Correcte	d Value	<u>Units</u>	FC QC	QC Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6	LT LT LT LT LT LT LT	11. 12. 9.0 2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7	UGL UGL UGL UGL UGL UGL UGL UGL UGL	N N T T T T T	10.000 10.000 10.000

Site Identification: WELL 01560

Sample Date: 11/13/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSK005 Lab Number: PLUME#33

Test Name	Corrected	Value	Units	FC	QC	QC :	Spike
CCL4	LT	4.9	UGL		\mathbf{T}		
CH2CL2	ND	5.0	UGL	R	T		
CHCL3	LT	1.7	UGL		T		
CLC6H5	LT	1.8	UGL		${f T}$		
DBCP	LT	5.6	UGL		\mathbf{T}		
DCPD	LT	3.7	UGL		${f T}$		
DMDS	LT	3.7	UGL		${f T}$		
ETC6H5	LT	2.4	UGL		\mathbf{T}		
MEC6H5	LT	3.5	UGL		\mathbf{T}		
MIBK	LT	1.2	UGL		\mathbf{T}		
TCLEE	LT	2.9	UGL		${f T}$		
TRCLE	LT	2.0	UGL		T		
XYLEN	LT	2.4	UGL		\mathbf{T}		

Method: WW8

Analysis Number: GWJ010 Lab Number: PLUME#32

Test Name

Corrected Value Units FC QC QC Spike

HG LT 0.500 UGL

Method: PP8A

Analysis Number: QBB006 Lab Number: PLUME#32

Test

Name	Corre	cted Value	Units	FC	<u>QC</u>	QC	Spike
BTZ	LT	1.14	UGL				
CPMS	LT	1.08	UGL				
CPMSO	${ t LT}$	1.98	UGL				
CPMSO2	LT	2.24	UGL				
DITH	LT	3.34	UGL				
DMDS	LT	1.16	UGL				
TAXO	LT	1.35	UGL				

Site Identification: WELL 01578

Sample Date: 12/20/89

Depth(ft): 0.0 Sampling Technique: B

Method: VV8

Analysis Number: GHX005 Lab Number: PLUME#40

Test

Name Corrected Value Units FC QC QC Spike

AS LT 1.00 UGL

Method: NN8

Analysis Number: GJV005 Lab Number: PLUME#40

Test

Name Corrected Value Units FC QC QC Spike
CL 210000. UGL

F LT 10000. UGL 504 70000. UGL

Method: MM8A

Analysis Number: GPY005 Lab Number: PLUME#40

Test

Corrected Value Units FC QC QC Spike Name 0.0830 UGL ALDRN LT CL6CP LT 0.0830 UGL LT 0.152 UGL CLDAN 0.0539 UGL DLDRN LT LT 0.0600 UGL ENDRN LT 0.0560 UGL ISODR 0.0460 UGL LT PPDDE 0.0590 PPDDT LT UGL

Method: UU8

Analysis Number: GSN005 Lab Number: PLUME#43

Test

Units FC QC QC Spike Corrected Value Name UGL D 2.4 111TCE LT1.6 UGL D LT 112TCE 1.4 UGL LTD 11DCLE UGL D 12DCE LT3.2 0.72 UGL D 12DCLE LT2.9 UGL D 13DMB LT1.8 UGL D BCHPD LT2.7 UGL D C6H6 LTCCL4 LT 4.9 UGL D

Site Identification: WELL 01578

Sample Date: 12/20/89
Depth(ft): 0.0 Sampling Technique: B
Method: UU8

Method: UU8

Analysis Number: GSN005 Lab Number: PLUME#43

Test Name	Corrected	Value	Units	FC	QC	QC	Spike
CH2CL2 CHCL3	ND LT	5.0 1.7	UGL UGL	R D			
CLC6H5	LT	1.8	UGL	D			
DBCP	LT	5.6	UGL	D			
DCPD		11.	UGL	D			
DMDS	LT	3.7	UGL	D			
ETC6H5	LT	2.4	UGL	D			
MEC6H5	LT	3.5	UGL	D			
MIBK	LT	1.2	UGL	D			
TCLEE	LT	2.9	UGL	D			
TRCLE	LT	2.0	UGL	D			
XYLEN	LT	2.4	UGL	D			
12DCD4		10.	UGL	D	N		.0.000
CD2CL2		11.	UGL	D	N		0.000
ETBD10		9.5	UGL	D	N	1	.0.00

Method: UU8

Analysis Number: GSO003 Lab Number: PLUME#40

Test Name	Corrected	Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL	-			
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
С6Н6	LT	2.7	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD		9.6	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				

Site Identification: WELL 01578

Sample Date: 12/20/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSO003 Lab Number: PLUME#40

Test Units FC QC QC Spike Corrected Value Name 2.4 UGL XYLEN LT 10.000 12DCD4 10. UGL Ν 10.000 CD2CL2 12. UGL N UGL N 10.000 9.5 ETBD10

Method: WW8

Analysis Number: GWL005 Lab Number: PLUME#40

Test

Name Corrected Value Units FC QC QC Spike

HG LT 0.500 UGL

Method: QQ8

Analysis Number: QAA005 Lab Number: PLUME#40

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Method: PP8A

Analysis Number: QBD005 Lab Number: PLUME#40

Test Corrected Value Units FC QC QC Spike Name 1.14 UGL BTZ LT 1.08 CPMS LT UGL 1.98 UGL LT CPMSO 2.24 UGL LT CPMSO2 3.34 UGL DITH LTLT 1.16 UGL DMDS LT 1.35 UGL OXAT

Site Identification: WELL 01579

Sample Date: 12/20/89

Depth(ft): 0.0 Sampling Technique:

Method: VV8

Analysis Number: GHX006 Lab Number: PLUME#41

Test

Corrected Value Units FC QC QC Spike Name

AS LT1.00 UGL

Method: NN8

Analysis Number: GJV006 Lab Number: PLUME#41

Test

Corrected Value Units FC QC QC Spike Name

CL140000. UGL F LT 10000. UGL SO4 82000. UGL

Method: MM8A

Analysis Number: GPY006 Lab Number: PLUME#41

Test

Name Corrected Value Units FC QC QC Spike

ALDRN LT0.0830 UGL CL6CP LT0.0830 UGL CLDAN LT 0.152 UGL DLDRN LT 0.0539 UGL LT 0.0600 ENDRN UGL LT0.0560 ISODR UGL PPDDE LT 0.0460 UGL PPDDT LT 0.0590 UGL

Method: UU8

Analysis Number: GSN003 Lab Number: PLUME#41

Test

Name Corrected Value Units FC QC QC Spike

111TCE LT 2.4 UGL 112TCE LT 1.6 UGL 11DCLE LT1.4 UGL 12DCE LT3.2 UGL 12DCLE LT 0.72 UGL 13DMB LT2.9 UGL BCHPD LT 1.8 UGL 2.7 C6H6 LTUGL CCL4 LT4.9 UGL

Site Identification: WELL 01579

Sample Date: 12/20/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSN003 Lab Number: PLUME#41

Test Name	Corrected	Value	Units	FC	<u>QC</u>	QC	Spike
CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	ND LT LT LT LT LT LT LT LT LT	5.0 1.7 1.8 5.6 16. 3.7 2.4 3.5 1.2 2.9 2.0 2.4 9.1 10.	UGL	R	N N	1	0.000 0.000 0.000

Method: UU8

Analysis Number: GSN006 Lab Number: PLUME#44

Test Name	Corrected	l Value	Units	FC	QC	QC Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5	LT L	9.4 11. 10. 2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9 5.0 1.7 1.8 5.6 3.7 2.4 3.5	UGL	R	NNNRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	10.000 10.000 10.000

Site Identification: WELL 01579

Sample Date: 12/20/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSN006 Lab Number: PLUME#44

Test

Name	Corrected	Value	Units	$\underline{\mathtt{FC}}$	QC	QC	Spike
MIBK	LT	1.2	UGL		R		
TCLEE	\mathtt{LT}	2.9	UGL		R		
TRCLE	LT	2.0	UGL		R		
XYLEN	LT	2.4	UGL		R		

Method: WW8

Analysis Number: GWL006 Lab Number: PLUME#41

Test

Corrected Value Units FC QC QC Spike Name

HG LT 0.500 UGL

Method: QQ8
Analysis Number: QAA006 Lab Number: PLUME#41

Test

Name Corrected Value Units FC QC QC Spike DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Method: PP8A

Analysis Number: QBD006 Lab Number: PLUME#41

Test

Name	Corrected	<u>d Value</u>	<u>Units</u>	FC	QC	QC	Spike
BTZ	LT	1.14	UGL				
CPMS	LT	1.08	UGL				
CPMSO	LT	1.98	UGL				
CPMSO2	LT	2.24	UGL				
DITH	LT	3.34	UGL				
DMDS	LT	1.16	UGL				
TAXO	LT	1.35	UGL				

Site Identification: WELL 01580

12/20/89 Sample Date:

Sampling Technique: B Depth(ft): 0.0

Method: VV8

Analysis Number: GHX007 Lab Number: PLUME#42

Test

Corrected Value Units FC QC QC Spike Name

1.00 UGL AS LT

NN8 Method:

Analysis Number: GJV007 Lab Number: PLUME#42

Test

Test

Units FC QC QC Spike Corrected Value Name

200000. UGL CLLT 10000. UGL 190000. UGL SO4

Method: A8MM

Analysis Number: GPY007 Lab Number: PLUME#42

Corrected Value Units FC QC QC Spike Name 0.0830 UGL ALDRN LT0.0830 UGL LT

CL6CP LT 0.152 UGL CLDAN LT 0.0539 UGL DLDRN 0.0600 UGL LTENDRN 0.0560 ISODR LT UGL 0.0460 UGL PPDDE LTUGL

0.0717 PPDDT

UU8 Method:

Analysis Number: GSN004 Lab Number: PLUME#42

Test

Corrected Value Units FC QC QC Spike Name 111TCE LT 2.4 UGL 1.6 112TCE LT UGL 1.4 LTUGL 11DCLE 12DCE LT 3.2 UGL 12DCLE LT0.72 UGL 2.9 13DMB LTUGL BCHPD LT1.8 UGL LT 2.7 UGL C6H6 4.9 CCL4 LTUGL

C

Site Identification: WELL 01580

Sample Date: 12/20/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSN004 Lab Number: PLUME#42

Test Name	Corrected	Value	Units	FC	QC	QC	Spike
CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	ND LT LT LT LT LT LT LT LT LT LT	5.0 1.7 1.8 5.6 3.7 2.4 3.5 1.2 2.9 2.0 2.4 10.	UGL	R	N N	1	LO.000 LO.000 LO.000

Method: WW8

Analysis Number: GWL007 Lab Number: PLUME#42

Test

Corrected Value Units FC QC QC Spike Name

HG LT 0.500 UGL

Method: QQ8

Analysis Number: QAA007 Lab Number: PLUME#42

Test

Corrected Value Units FC QC QC Spike Name

LT10.1 DIMP UGL 16.3 LTUGL DMMP

Site Identification: WELL 01580

Sample Date:
Depth(ft):
Method: PP8A 12/20/89

0.0 Sampling Technique: B

Analysis Number: QBD007 Lab Number: PLUME#42

Test Name	Correcte	d Value	Units	FC	<u>QC</u>	QC	Spike
BTZ CPMS CPMSO CPMSO2 DITH DMDS OXAT	LT LT LT LT LT LT LT	1.14 1.08 1.98 2.24 3.34 1.16 1.35	UGL UGL UGL UGL UGL UGL UGL				

Site Identification: WELL 01581

Sample Date: 12/20/89

Depth(ft): 0.0 Sampling Technique: B

Method: VV8

Analysis Number: GHX008 Lab Number: PLUME#45

Test

Name Corrected Value Units FC QC QC Spike

AS LT 1.00 UGL

Method: NN8

Analysis Number: GJV008 Lab Number: PLUME#45

Test

Name Corrected Value Units FC QC QC Spike

CL 200000. UGL F LT 10000. UGL SO4 70000. UGL

Method: MM8A

Analysis Number: GPY008 Lab Number: PLUME#45

Test

Name Corrected Value Units FC QC QC Spike

0.0830 ALDRN LTUGL CL6CP LT 0.0830 UGL CLDAN LT 0.152 UGL DLDRN LT 0.0539 UGL ENDRN LT 0.0600 UGL ISODR LT 0.0560 UGL PPDDE 0.0460 LT UGL PPDDT LT 0.0590 UGL

Method: UU8

Analysis Number: GSN007 Lab Number: PLUME#45

Test

Name Corrected Value Units FC QC QC Spike 111TCE LT 2.4 UGL LT 1.6 112TCE UGL 11DCLE LT 1.4 UGL 12DCE LT3.2 UGL 0.72 12DCLE LT UGL LT 2.9 13DMB UGL

BCHPD LT 1.8 UGL C6H6 LT 2.7 UGL CCL4 LT 4.9 UGL

Site Identification: WELL 01581

Sample Date: 12/20/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSN007 Lab Number: PLUME#45

Test							
Name	Corrected	Value	$\underline{\text{Units}}$	$\underline{\mathtt{FC}}$	<u>QC</u>	QC	Spike
CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	ND LT LT LT LT LT LT LT LT LT	5.0 1.7 1.8 5.6 3.7 3.7 2.4 3.5 1.2 2.9 2.0 2.4 11.	UGL	R	N N N	1	10.000 10.000 10.000

Method: WW8

Analysis Number: GWL008 Lab Number: PLUME#45

Test

Name Corrected Value Units FC QC QC Spike

HG LT 0.500 UGL

Method: QQ8

Analysis Number: QAA008 Lab Number: PLUME#45

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Site Identification: WELL 01581

Sample Date: 12/20/89

Depth(ft): 0.0 Sampling Technique: B

Method: PP8A
Analysis Number: QBD008 Lab Number: PLUME#45

Test Name	Corre	cted Value	<u>Units</u>	FC	QC	QC	Spike
BTZ CPMS CPMSO CPMSO2 DITH DMDS OXAT	LT LT LT LT LT LT	1.14 1.08 1.98 2.24 3.34 1.16 1.35	UGL UGL UGL UGL UGL UGL				

Site Identification: WELL 01586

11/13/89 Sample Date:

Depth(ft): 0.0 Sampling Technique:

Method: QQ8

Analysis Number: GGX011 Lab Number: PLUME#34

Test

Units FC QC QC Spike Name Corrected Value

DIMP LT10.1 UGL DMMP LT 16.3 UGL

Method: VV8

GHW026 Lab Number: Analysis Number: PLUME#34

Test

Name Corrected Value Units FC QC QC Spike

2.50 UGL AS LT

Method: NN8

Analysis Number: GJT011 Lab Number: PLUME#34

Test

ISODR

Name Corrected Value Units FC QC QC Spike

CL61000. UGL 10000. UGL LT SO4 98000. UGL

Method: A8MM

Analysis Number: GPV007 Lab Number: PLUME#34

Test Corrected Value Units FC QC QC Spike Name 0.0830 UGL ALDRN LT0.0830 UGL CL6CP LT CLDAN LT 0.152 UGL DLDRN 0.0755 UGL C **ENDRN** 0.0889 UGL C LT 0.0560 UGL

Site Identification: WELL 01586

Sample Date: 11/13/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSK006 Lab Number: PLUME#34

Test Name	Corrected	d Value	<u>Units</u>	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6	LT	2.7	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		9.9	UGL		N	1	.0.000
CD2CL2		12.	UGL		N	1	.0.000
ETBD10		9.6	UGL		N	1	.0.000

Method: WW8

Analysis Number: GWJ011 Lab Number: PLUME#34

Test Corrected Value Units FC QC QC Spike Name HG 0.500 LTUGL

Site Identification: WELL 01586

Sample Date: 11/13/89

Depth(ft): 0.0 Sampling Technique: B

Method: PP8A
Analysis Number: QBB007 Lab Number: PLUME#34

Test Name	Correcte	d Value	Units	FC	<u>QC</u>	QC Spike
BTZ CPMS CPMSO CPMSO2 DITH DMDS OXAT	LT LT LT LT LT LT LT	1.14 1.08 1.98 2.24 3.34 1.16 1.35	UGL UGL UGL UGL UGL UGL			

Site Identification: WELL 01587

Sample Date: 11/14/89

Depth(ft): 0.0 Sampling Technique:

Method: 008

Analysis Number: GGX012 Lab Number: PLUME#35

Test

Corrected Value Name Units FC QC QC Spike

DIMP LT10.1 UGL 16.3 DMMP LT UGL

Method: VV8

Analysis Number: GHW027 Lab Number: PLUME#35

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: NN8

Analysis Number: GJT012 Lab Number: PLUME#35

Test

Name Corrected Value Units FC QC QC Spike

CL150000. UGL F LT 10000. UGL SO4 110000. UGL

Method: MM8A

Analysis Number: GPV008 Lab Number: PLUME#35

Test

Name Corrected Value Units FC QC QC Spike ALDRN LT0.0830 UGL CL6CP LT0.0830 UGL CLDAN 0.152 LT UGL DLDRN 0.122 UGL C 0.206 ENDRN UGL C ISODR LT 0.0560 UGL

Site Identification: WELL 01587

11/14/89

Sample Date:
Depth(ft): Sampling Technique: B 0.0

Method: UU8

Analysis Number: GSM003 Lab Number: PLUME#35

Test			11				- 11
Name	Corrected	<u>Value</u>	Units	FC	<u>QC</u>	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD		15.	UGL				
C6H6	LT	2.7	UGL				
CCL4	LΤ	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD		36.	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4 11.	UGL		N		10 000
12DCD4		12.	UGL UGL		N		10.000 10.000
CD2CL2 ETBD10		9.4	UGL		N		10.000
FIDDIO		2.4	OGL		TA		10.000

Method: UU8

Analysis Number: GSM007 Lab Number: PLUME#38

Test Name	Corrected Val	ue <u>Units</u>	FC QC	QC Spike
111TCE 112TCE	47. 40.	UGL UGL	N	40.000
11DCLE 12DCD4 12DCE	47. 39. 45.	UGL UGL UGL	N N N	40.000 40.000 40.000
12DCLE 13DMB	46. 20.	UGL UGL	N	40.000 20.000
BCHPD C6H6 CCL4	47. 40. 47.	UGL UGL UGL	N N N	40.000 40.000 40.000
CD2CL2	46.	UGL	N	40.000

Site Identification: WELL 01587

Sample Date: 11/14/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSM007 Lab Number: PLUME#38

Test Name	Corrected	Value	<u>Units</u>	FC	QC	QC Spike
CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETBD10 ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN		47. 45. 38. 38. 34. 46. 40. 40. 36. 38. 42. 40. 61.	UGL UGL UGL UGL UGL UGL UGL UGL UGL	R		40.000 40.000 40.000 40.000 40.000 40.000 40.000 40.000 40.000 40.000 60.000

Method: WW8

Analysis Number: GWJ012 Lab Number: PLUME#35

Test

Corrected Value Units FC QC QC Spike Name LT 0.500 HG UGL

Method: PP8A

Analysis Number: QBB008 Lab Number: PLUME#35

Test Corrected Value Units FC QC QC Spike Name BTZ LT 1.14 UGL CPMS LT1.08 UGL CPMSO LT 1.98 UGL CPMSO2 LT2.24 UGL DITH LT 3.34 UGL DMDS LT1.16 UGL LTOXAT 1.35 UGL

Site Identification: WELL 01588

Sample Date: 11/14/89

Depth(ft): 0.0 Sampling Technique: B

Method: QQ8

Analysis Number: GGX013 Lab Number: PLUME#36

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL

DMMP LT 16.3 UGL

Method: QQ8

Analysis Number: GGX014 Lab Number: PLUME#37

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL D DMMP LT 16.3 UGL D

Method: VV8

Analysis Number: GHW028 Lab Number: PLUME#36

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: NN8

Analysis Number: GJT013 Lab Number: PLUME#36

Test

Name Corrected Value Units FC QC QC Spike

CL 170000. UGL

F LT 10000. UGL SO4 110000. UGL

Method: NN8

Analysis Number: GJT014 Lab Number: PLUME#37

Test

Name Corrected Value Units FC QC QC Spike

CL 170000. UGL D F LT 10000. UGL D

504 1200000. UGL D

Site Identification: WELL 01588

Sample Date: 11/14/89

Depth(ft): 0.0 Sampling Technique: B

Method: MM8A

Analysis Number: GPV010 Lab Number: PLUME#37

Test Name	Correct	ted Value	Units	FC	QC	QC	Spike
ALDRN	LT	0.0830	UGL	D			
CL6CP	LT	0.0830	UGL	D			
CLDAN	LT	0.152	UGL	D			
DLDRN		0.721	UGL	D			
ENDRN		0.119	UGL	D			
ISODR	LT	0.0560	UGL	D			
PPDDE		0.224	UGL	D			
PPDDT	LT	0.0590	UGL	D			

Method: MM8A

Analysis Number: GPV009 Lab Number: PLUME#36

Test Name	Corr	ected Value	Units	FC	QC	QC	Spike
ALDRN	LT	0.0830	UGL				
CL6CP	LT	0.0830	UGL				
CLDAN	LT	0.152	UGL				
DLDRN		0.755	UGL	C			
ENDRN		0.121	UGL	С			
ISODR	LT	0.0560	UGL				
PPDDE		0.204	UGL	С			
PPDDT	LT	0.0590	UGL				

Method: UU8

Analysis Number: GSM004 Lab Number: PLUME#36

Test Name	Corre	cted Value	Units	FC	QC	QC	Spike
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5	LT LT LT LT LT LT	2.4 1.6 1.4 3.2 0.72 15. 400. 30000. 4.9 5.0 1.7 1.8	UGL UGL UGL UGL UGL UGL UGL UGL UGL	R			

Site Identification: WELL 01588

Sample Date: 11/14/89
Depth(ft): 0.0 Sampling Technique: B

Method: UU8 Analysis Number: GSM004 Lab Number: PLUME#36

Test Name	Correcte	d Value	Units FC	QC Q	C Spike
DBCP DCPD	LT	5.6 500.	UGL UGL		
DMDS	LT	3.7	UGL		
ETC6H5	$L\mathbf{T}$	2.4	UGL		
MEC6H5		5.8	UGL		
MIBK	LT	1.2	UGL		
TCLEE	LT	2.9	UGL		
TRCLE	LT	2.0	UGL		
XYLEN		72.	UGL		
12DCD4		12.	UGL	N	10.000
CD2CL2		11.	UGL	N	10.000
ETBD10	LΤ	2.3	UGL	N	10.000

Method: UU8

Analysis Number: GSM005 Lab Number: PLUME#37

Test Name	Correct	ed Value	Units	FC	<u>QC</u>	QC	Spike
111TCE	LT	2.4	UGL	D			
112TCE	LT	1.6	UGL	D			
11DCLE	LT	1.4	UGL	D			
12DCE	LT	3.2	UGL	D			
12DCLE	LT	0.72	UGL	D			
13DMB		14.	UGL	D			
BCHPD		500.	UGL	D			
C6H6		20000.	UGL	D			
CCL4	LT	4.9	UGL	D			
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL	D			
CLC6H5	LT	1.8	UGL	D			
DBCP	LT	5.6	UGL	D			
DCPD		700.	UGL	D			
DMDS	LT	3.7	UGL	D			
ETC6H5	LT	2.4	UGL	D			
MEC6H5		5.8	UGL	D			
MIBK	LT	1.2	UGL	D			
TCLEE	LT	2.9	UGL	D			
TRCLE	\mathtt{LT}	2.0	UGL	D			
XYLEN		68.	UGL	D			
12DCD4		11.	UGL	D	N		10.000
CD2CL2		7.2	UGL	D	N		10.000

Site Identification: WELL 01588

Sample Date: 11/14/89

Depth(ft):
Method: UU8 0.0 Sampling Technique: B

Analysis Number: GSM005 Lab Number: PLUME#37

Test

Corrected Value Units FC QC QC Spike Name

2.3 ETBD10 UGL D N 10.000

Method: UU8

Analysis Number: GSM006 Lab Number: PLUME#39

Test							
Name	Corrected	Value	Units	FC	QC	QC	Spike
1.2DCD4		1 1	HCT				10.000
12DCD4		11.	UGL		N		10.000
CD2CL2		11.	UGL		N		10.000
ETBD10		10.	UGL		N	•	10.000
111TCE	LT	2.4	UGL		T		
112TCE	LT	1.6	UGL		${f T}$		
11DCLE	LT	1.4	UGL		\mathbf{T}		
12DCE	LT	3.2	UGL		\mathbf{T}		
12DCLE		0.72	UGL		${f T}$		
13DMB	LT	2.9	UGL		${f T}$		
BCHPD	LT	1.8	UGL		\mathbf{T}		
СбНб	LT	2.7	UGL		\mathbf{T}		
CCL4	LT	4.9	UGL		\mathbf{T}		
CH2CL2	ND	5.0	UGL	R	\mathbf{T}		
CHCL3	LT	1.7	UGL		\mathbf{T}		
CLC6H5	LT	1.8	UGL		\mathbf{T}		
DBCP	LT	5.6	UGL		\mathbf{T}		
DCPD	LT	3.7	UGL		T		
DMDS	LT	3.7	UGL		T		
ETC6H5	LT	2.4	UGL		$ar{ extbf{T}}$		
MEC6H5	LT	3.5	UGL		T		
MIBK	LT	1.2	UGL		T		
TCLEE	LT	2.9	UGL		T		
TRCLE	LT	2.0			T		
			UGL		_		
XYLEN	LT	2.4	UGL		T		

Site Identification: WELL 01588

Sample Date: 11/14/89

Depth(ft): 0.0 Sampling Technique: B

Method: WW8

Analysis Number: GWJ013 Lab Number: PLUME#36

Test

Name Corrected Value Units FC QC QC Spike

HG LT 0.500 UGL

Method: PP8A

Analysis Number: QBB010 Lab Number: PLUME#37

Test

Corrected Value Units FC QC QC Spike Name BTZ LT1.14 UGL D 1.08 CPMS LT UGL D 1.98 LTUGL D CPMSO CPMSO2 LT 2.24 UGL D DITH LT3.34 UGL D DMDS LT 1.16 UGL D OXAT LT 1.35 UGL D

Method: PP8A

Analysis Number: QBB009 Lab Number: PLUME#36

Test

Name	Correct	ed Value	Units	\underline{FC}	<u>QC</u>	QC	Spike
BTZ	LT	1.14	UGL				
CPMS	LT	1.08	UGL				
CPMSO	LT	1.98	UGL				
CPMSO2	LT	2.24	UGL				
DITH	LT	3.34	UGL				
DMDS	\mathtt{LT}	1.16	UGL				
OXAT	LT	1.35	UGL				

Site Identification: WELL 02001

Sample Date: 11/07/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSJ010 Lab Number: -PLUME#8

Test Name	Correct	ted Value	Units	FC	QC	QC Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCLE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MIBK TCLEE TRCLE	LT LT LT LT LT LT LT LT LT LT LT LT LT	8.1 13.8.5 2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9 5.0 1.8 5.7 2.4 3.7 2.4 3.7 2.4 3.7 2.9 1.8 2.7	UGL	R	NNNTTTTTTTTTTTTTTTTTTT	10.000 10.000 10.000

Sample Date: 11/08/89

Depth(ft): 0.0 Sampling Technique: B

Method: QQ8

Analysis Number: GGW011 Lab Number: -PLUME#9

Test Units FC QC QC Spike Corrected Value Name LT10.1 DIMP UGL LT16.3 DMMP UGL

Site Identification: WELL 02001

11/08/89 Sample Date:

Depth(ft): 0.0 Sampling Technique: B

VV8 Method:

Analysis Number: GHW011 Lab Number: -PLUME#9

Test

Corrected Value Units FC QC QC Spike Name

120. UGL AS

PP8A Method:

Analysis Number: GIZ011 Lab Number: -PLUME#9

Test

Name	Correc	cted Value	Units	$\frac{FC}{}$	<u>QC</u>	QC	Spike	
BTZ	LT	1.14	UGL					
CPMS	LT	1.08	UGL					
CPMSO	LT	1.98	UGL					
CPMSO2	LT	2.24	UGL					
DITH	LT	3.34	UGL					
DMDS	LT	1.16	UGL					
TAXO	LT	1.35	UGL					

Method: NN8

Analysis Number: Lab Number: GJS011 -PLUME#9

Test

Test

ENDRN

Name	Corr	ected Value	Units	FC	QC	QC	Spike
CL F SO4	LT	91000. 10000. 160000.	UGL UGL UGL				

Method: A8MM

GPT011 Lab Number: -PLUME#9 Analysis Number:

Corrected Value Units FC QC QC Spike Name 0.0830 UGL ALDRN LTCL6CP LT0.0830 UGL 0.876 UGL CLDAN 1.72 UGL DLDRN

0.0600

0.0560 UGL LTISODR LT0.0460 UGL PPDDE PPDDT LT0.0590 UGL

LT

C

С

UGL

Site Identification: WELL 02001

Sample Date: 11/08/89
Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSJ011 Lab Number: -PLUME#9

Test							
Name	Corrected	Value	Units	FC	OC	OC	Spike
		74440	0112 05		<u>×</u> ·	<u> </u>	DDIKE
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE		0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6		2.9	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5		4.3	UGL				
MIBK	LT	1.2	UGL				
TCLEE		3.2	UGL				
TRCLE	LT	2.0	UGL				
XYLEN		3.1	UGL				
12DCD4		9.9	UGL		N	1	LO.000
CD2CL2		11.	UGL		N		10.000
ETBD10		9.7	UGL		N	1	10.000

Method: WW8

Analysis Number: GWI011 Lab Number: -PLUME#9

Test

Corrected Value Units FC QC QC Spike Name HG LT 0.500 UGL

Site Identification: WELL 02023

Sample Date: 11/08/89

Depth(ft): 0.0 Sampling Technique: B

Method: QQ8

Analysis Number: GGW012 Lab Number: PLUME#10

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Method: VV8

Analysis Number: GHW012 Lab Number: PLUME#10

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: PP8A

Analysis Number: GIZ012 Lab Number: PLUME#10

Test

Name Corrected Value Units FC QC QC Spike

BTZ LT 1.14 UGL 1.08 CPMS LT UGL LT 1.98 UGL CPMSO CPMSO2 LT 2.24 UGL DITH LT 3.34 UGL DMDS LT 1.16 UGL TAXO LT 1.35 UGL

Method: NN8

Analysis Number: GJS012 Lab Number: PLUME#10

Test

Name Corrected Value Units FC QC QC Spike

CL 120000. UGL F LT 10000. UGL SO4 280000. UGL

Site Identification: WELL 02023

Sample Date: 11/08/89

Depth(ft): 0.0 Sampling Technique: B Method: MM8A

Analysis Number: GPT012 Lab Number: PLUME#10

Test Name Corrected Value Units FC QC QC Spike ALDRN LT 0.0830 UGL CL6CP 0.0830 LT UGL CLDAN LT0.152 UGL DLDRN 0.156 UGL C ENDRN 0.389 UGL C ISODR LT 0.0560 UGL PPDDE LT 0.0460 UGL PPDDT LT0.0590 UGL

Method: 8UU

Analysis Number: GSJ012 Lab Number: PLUME#10

Test Name	Corrected	Value	<u>Units</u>	FC	<u>QC</u>	QC	Spike
111TCE 112TCE 11DCLE 12DCLE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MEC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	LT L	2.4 1.6 1.4 3.72 2.9 1.8 2.7 4.9 5.7 1.8 5.6 3.7 2.9 2.0 2.4 3.2 2.9	UGL UGL UGL UGL UGL UGL UGL UGL UGL UGL	R	N N N	1 1	.0.000 .0.000 .0.000
							· · · · ·

Site Identification: WELL 02023

11/08/89

Sample Date: Depth(ft): Method: WW8 Sampling Technique: 0.0

Analysis Number: GWI012 Lab Number: PLUME#10

Test

Units FC QC QC Spike Name Corrected Value

0.500 UGL HG LT

Site Identification: WELL 02034

Sample Date: 11/08/89

Depth(ft): 0.0 Sampling Technique: B

Method: 008

Analysis Number: GGW013 Lab Number: PLUME#11

Test

Corrected Value Units FC QC QC Spike Name

DIMP LT 10.1 UGL DMMP LT16.3 UGL

Method: 8VV

Analysis Number: GHW013 Lab Number: PLUME#11

Test

Name Corrected Value Units FC QC QC Spike

AS LT2.50 UGL

Method: PP8A

Analysis Number: GIZ013 Lab Number: PLUME#11

Test

Name Corrected Value Units FC QC QC Spike BTZ LT 1.14 UGL

LT1.08 CPMS UGL LT 1.98 CPMSO UGL LT2.24 CPMSO2 UGL 3.34 DITH LTUGL DMDS LT 1.16 UGL TAXO LT 1.35 UGL

Method: NN8

Analysis Number: GJS013 Lab Number: PLUME#11

Test

Name Corrected Value Units FC QC QC Spike

CL130000. UGL 10000. F LTUGL SO4 160000. UGL

Site Identification: WELL 02034

Sample Date: 11/08/89

Sampling Technique: B Depth(ft): 0.0

Method: MM8A Analysis Number: GPT013 Lab Number: PLUME#11

Test Name	Correc	ted Value	Units	FC	<u>QC</u>	QC	Spike
ALDRN	LT	0.0830	UGL				
CL6CP	LT	0.0830	UGL				
CLDAN	LT	0.152	UGL				
DLDRN		0.123	UGL	C			
ENDRN	LT	0.0600	UGL				
ISODR		0.161	UGL	C			
PPDDE	LT	0.0460	UGL				
PPDDT	LT	0.0590	UGL				

Method: UU8

Analysis Number: GSI003 Lab Number: PLUME#11

Test Name	Corrected	d Value	Units	FC	QC	QC	Spike
	Corrected LT LT LT LT LT LT LT LT LT L	2.4 1.6 3.1 3.2 0.72 2.9 1.8 2.7 4.9 5.0 10. 1.8 5.6 3.7 3.7	Units UGL	<u>FC</u>	QC	<u>QC</u>	Spike
MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	LT LT LT LT	3.5 1.2 2.9 2.0 2.4 9.4 12.	UGL UGL UGL UGL UGL UGL UGL		N N N	1	LO.000 LO.000

Site Identification: WELL 02034

Sample Date: 11/08/89

Depth(ft): 0.0 Sampling Technique: B

Method: WW8

Analysis Number: GWI013 Lab Number: PLUME#11

Test

Corrected Value Units FC QC QC Spike Name

HG LT0.500 UGL

Site Identification: WELL 02504

Sample Date: 11/09/89

Depth(ft): 0.0 Sampling Technique: B

Method: QQ8

Analysis Number: GGW016 Lab Number: PLUME#15

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Method: VV8

Analysis Number: GHW016 Lab Number: PLUME#15

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: NN8

Analysis Number: GJS016 Lab Number: PLUME#15

Test

Name Corrected Value Units FC QC QC Spike

CL 1700000. UGL F LT 10000. UGL SO4 75000. UGL

Method: NN8

Analysis Number: GJS020 Lab Number: PLUME#19

Test

Name Corrected Value Units FC QC QC Spike

CL 1700000. UGL D F LT 10000. UGL D SO4 72000. UGL D

Site Identification: WELL 02504

Sample Date: 11/09/89
Depth(ft): 0.0 Sampling Technique: B

Method: MM8A

Analysis Number: GPU005 Lab Number: PLUME#15

Test Name	Correc	ted Value	<u>Units</u>	FC	QC	QC	Spike
ALDRN	LT	0.0830	UGL				
CL6CP	LT	0.0830	UGL				
CLDAN	LT	0.152	UGL				
DLDRN	LT	0.0539	UGL				
ENDRN	LT	0.0600	UGL				
ISODR	LT	0.0560	UGL				
PPDDE	LT	0.0460	UGL				
PPDDT	LT	0.0590	UGL				

Method: UU8
Analysis Number: GSI011 Lab Number: PLUME#20

Test Name	Correcte	d Value	<u>Units</u>	FC	QC	QC	Spike
Name 111TCE 112TCE 11DCLE 12DCLE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2	LT L	2.4 1.6 53. 12. 0.72 2.9 1.8 90. 4.9 5.0 1.7 14. 5.6 3.7 2.4 3.5 1.2 2.9 2.0 2.4 9.2	Units UGL	FC DDDDDDDDDRDDDDDDDDDDDDD	QC N N		10.000 10.000
ETBD10		9.0	UGL	D	N	-	10.000

Site Identification: WELL 02504

<u>Sample Date</u>: 11/09/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSI007 Lab Number: PLUME#15

Test Name	Corrected	Value	Units	FC	QC	QC	Spike
111TCE 112TCE 112TCE 11DCLE 12DCLE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2	LT LT	2.4 1.6 57. 12.0 0.72 2.9 1.8 70.4.9 5.0 1.7 14.5 5.6 3.7 2.4 3.5 1.2 2.9 2.0 2.4 11.	UGL UGL UGL UGL UGL UGL UGL UGL	R	N N		10.000 10.000
ETBD10		10.	UGL		N		10.000

Method: UU8

Analysis Number: GSL003 Lab Number: PLUME#21

Test Name	Correcte	d Value	Units	FC	<u>QC</u>	QC Spike
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3	LT LT LT LT LT LT LT LT LT	2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9 5.0 1.7	UGL UGL UGL UGL UGL UGL UGL UGL UGL	R	444444444	

Site Identification: WELL 02504

Sample Date: 11/09/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSL003 Lab Number: PLUME#21

Test Name	Corrected	Value	Units	FC	QC	QC Spike
CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN	LT LT LT LT LT LT LT LT	1.8 5.6 3.7 3.7 2.4 3.5 1.2 2.9 2.0 2.4	UGL UGL UGL UGL UGL UGL UGL UGL UGL		F F F F F F F F F F F F F F F F F F F	
12DCD4 CD2CL2		11. 13.	UGL UGL		N N	10.000
ETBD10		11.	UGL		N	10.000

Method: WW8

Analysis Number: GWI016 Lab Number: PLUME#15

Test

Corrected Value Units FC QC QC Spike Name

HG 0.500 LT UGL

Method: PP8A

Analysis Number: QBA005 Lab Number: PLUME#15

Test Corrected Value Units FC QC QC Spike Name BTZ LT1.14 UGL CPMS LT1.08 UGL LT 1.98 CPMSO UGL CPMSO2 LT2.24 UGL 3.34 DITH LTUGL LTDMDS 1.16 UGL OXAT LT 1.35 UGL

Site Identification: WELL 02505

Sample Date: 11/09/89

Depth(ft): 0.0 Sampling Technique: B

Method: QQ8

Analysis Number: GGW017 Lab Number: PLUME#16

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Method: VV8

Analysis Number: GHW017 Lab Number: PLUME#16

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: NN8

Analysis Number: GJS017 Lab Number: PLUME#16

Test

Test

Name Corrected Value Units FC QC QC Spike

CL 1800000. UGL F LT 10000. UGL SO4 83000. UGL

Method: MM8A

Analysis Number: GPU006 Lab Number: PLUME#16

 Name
 Corrected Value
 Units
 FC
 QC
 QC
 Spike

 ALDRN
 LT
 0.0830
 UGL

 CL6CP
 LT
 0.0830
 UGL

 CLDAN
 LT
 0.152
 UGL

DLDRN LT 0.0539 UGL ENDRN LT 0.0600 UGL

ISODR LT 0.0560 UGL PPDDE LT 0.0460 UGL PPDDT LT 0.0590 UGL

Site Identification: WELL 02505

Sample Date: 11/09/89

Depth(ft): 0.0 Sampling Technique: B

Method: MM8A

Analysis Number: GPU009 Lab Number: PLUME#23

Test Name	Corre	ected Value	Units	FC	QC	QC	Spike	
ALDRN	LT	0.0830	UGL		R			
CL6CP	LT	0.0830	UGL		R			
CLDAN	LT	0.152	UGL		R			
DLDRN	LT	0.0539	UGL		R			
ENDRN	LT	0.0600	UGL		R			
ISODR	LT	0.0560	UGL		R			
PPDDE	LT	0.0460	UGL		R			
PPDDT	LT	0.0590	UGL		R			

Method: UU8
Analysis Number: GSI008 Lab Number: PLUME#16

Test							
Name	Corrected	Value	<u>Units</u>	FC	QC	QC	Spike
Name 111TCE 112TCE 11DCLE 12DCLE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE XYLEN	LT LT	2.4 1.6 68. 0.72 2.9 1.8 2.7 4.9 5.0 97. 1.8 5.7 3.7 2.4 3.5 1.2 2.9 2.0 2.4	UGL	FC R			
12DCD4 CD2CL2		9.5 12.	UGL UGL		N		LO.000 LO.000
ETBD10		9.3	UGL		N		10.000

Site Identification: WELL 02505

Sample Date: 11/09/89
Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSL004 Lab Number: PLUME#22

Test Name	Corrected	d Value	Units	FC	QC	QC	Spike
12DCD4		10.	UGL		N	1	0.000
CD2CL2		12.	UGL		N	1	.0.000
ETBD10		10.	UGL		N	1	0.000
111TCE	LT	2.4	UGL		R		
112TCE	LT	1.6	UGL		R		
11DCLE	LT	1.4	UGL		R		
12DCE	LT	3.2	UGL		R		
12DCLE	LT	0.72	UGL		R		
13DMB	LT	2.9	UGL		R		
BCHPD	LT	1.8	UGL		R		
C6H6	LT	2.7	UGL		R		
CCL4	LT	4.9	UGL		R		
CH2CL2	ND	5.0	UGL	R	R		
CHCL3	LT	1.7	UGL		R		
CLC6H5	LT	1.8	UGL		R		
DBCP	LT	5.6	UGL		R		
DCPD	LT	3.7	UGL		R		
DMDS	LT	3.7	UGL		R		
ETC6H5	LT	2.4	UGL		R		
MEC6H5	LT	3.5	UGL		R		
MIBK	LT	1.2	UGL		R		
TCLEE	LT	2.9	UGL		R		
TRCLE	LT	2.0	UGL		R		
XYLEN	LT	2.4	UGL		R		

Method: WW8

Analysis Number: GWI017 Lab Number: PLUME#16

Test

Corrected Value Units FC QC QC Spike Name 0.500 LTUGL HG

Site Identification: WELL 02505

Sample Date: 11/09/89

Depth(ft): 0.0 Sampling Technique: B

Method: PP8A
Analysis Number: QBA006 Lab Number: PLUME#16

Test Name	Corre	cted Value	Units	FC	QC	QC	Spike
BTZ	LT	1.14	UGL				
CPMS	LT	1.08	UGL				
CPMSO	LT	1.98	UGL				
CPMSO2	$\mathtt{L}\mathtt{T}$	2.24	UGL				
DITH	LT	3.34	UGL				
DMDS	LT	1.16	UGL				
OXAT	LT	1.35	UGL				

Method: PP8A

Analysis Number: QBA009 Lab Number: PLUME#23

Test Name	Correcte	d Value	Units	FC	QC	QC	Spike
BTZ CPMS CPMSO CPMSO2 DITH DMDS OXAT	LT LT LT LT LT LT LT	1.14 1.08 1.98 2.24 3.34 1.16 1.35	UGL UGL UGL UGL UGL UGL UGL		R R R R R R		

Site Identification: WELL 02506

Sample Date: 11/06/89

Depth(ft): 0.0 Sampling Technique: B

Method: QQ8

Analysis Number: GGW005 Lab Number: -PLUME#1

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Method: VV8

Analysis Number: GHW005 Lab Number: -PLUME#1

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: PP8A

Analysis Number: GIZ005 Lab Number: -PLUME#1

Test

Units FC QC QC Spike Name Corrected Value 1.14 UGL BTZ LT 1.08 UGL CPMS LT LT 1.98 UGL CPMSO LT2.24 UGL CPMSO2 3.34 UGL LTDITH 1.16 UGL DMDS LTLT 1.35 UGL OXAT

Method: NN8

Analysis Number: GJS005 Lab Number: -PLUME#1

Test

Name Corrected Value Units FC QC QC Spike

CL 1400000. UGL F LT 10000. UGL SO4 110000. UGL

Site Identification: WELL 02506

Sample Date: 11/06/89

Depth(ft): 0.0 Sampling Technique: B

Method: MM8A
Analysis Number: GPT005 Lab Number: -PLUME#1

Test Name	Corre	ected Value	Units FC QC QC Spike	
ALDRN	LT	0.0830	UGL	
CL6CP	LT	0.0830	UGL	
CLDAN	LT	0.152	UGL	
DLDRN	LT	0.0539	UGL	
ENDRN	LT	0.0600	UGL	
ISODR	LT	0.0560	UGL	
PPDDE	LT	0.0460	UGL	
PPDDT	LT	0.0590	UGL	

Method: UU8

Analysis Number: GSJ003 Lab Number: -PLUME#1

Test								
Name	Corrected	<u>l Value</u>	Units	<u>FC</u>	QC	QC	Spike	
111TCE	LT	2.4	UGL					
112TCE	LT	1.6	UGL					
11DCLE		59.	UGL					
12DCE		13.	UGL					
12DCLE	LT	0.72	UGL					
13DMB	LT	2.9	UGL					
BCHPD	LT	1.8	UGL					
C6H6	LT	2.7	UGL					
CCL4	LT	4.9	UGL					
CH2CL2	ND	5.0	UGL	R				
CHCL3		170.	UGL					
CLC6H5	LT	1.8	UGL					
DBCP	LT	5.6	UGL					
DCPD	LT	3.7	UGL					
DMDS	LT	3.7	UGL					
ETC6H5	LT	2.4	UGL					
MEC6H5	LT	3.5	UGL					
MIBK	LT	1.2	UGL					
TCLEE		2.4	UGL					
TRCLE		3.4	UGL					
XYLEN	LT	2.4	UGL					
12DCD4		9.7	UGL		N		10.000	
CD2CL2		13.	UGL		N		10.000	
ETBD10		9.6	UGL		N	1	10.000	

Site Identification: WELL 02506

Sample Date: 11/06/89
Depth(ft): 0.0
Method: WW8 Sampling Technique: B

Analysis Number: GWI005 Lab Number: -PLUME#1

Corrected Value Units FC QC QC Spike Name

0.500 UGL LTHG

Site Identification: WELL 02507

Sample Date: 11/06/89

Depth(ft): 0.0 Sampling Technique: B

Method: QQ8

Analysis Number: GGW006 Lab Number: -PLUME#2

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Method: VV8

Analysis Number: GHW006 Lab Number: -PLUME#2

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: PP8A

Analysis Number: GIZ006 Lab Number: -PLUME#2

Test

Name Corrected Value Units FC QC QC Spike

BTZ LT 1.14 UGL LT 1.08 CPMS UGL CPMSO LT 1.98 UGL CPMSO2 LT 2.24 UGL DITH LT 3.34 UGL DMDS LT 1.16 UGL TAXO LT 1.35 UGL

Method: NN8

Analysis Number: GJS006 Lab Number: -PLUME#2

Test

Name Corrected Value Units FC QC QC Spike

CL 1500000. UGL F LT 10000. UGL SO4 58000. UGL

Site Identification: WELL 02507

Sample Date: 11/06/89

Depth(ft): 0.0 Sampling Technique: B

Method: MM8A

Analysis Number: GPT006 Lab Number: -PLUME#2

Test Name	Correc	ted Value	<u>Units</u>	FC	<u>QC</u>	QC Spike	2
ALDRN	LT	0.0830	UGL				
CL6CP	LT	0.0830	UGL				
CLDAN	LT	0.152	UGL				
DLDRN	LT	0.0539	UGL				
ENDRN	LT	0.0600	UGL				
ISODR	LT	0.0560	UGL				
PPDDE	LT	0.0460	UGL				
PPDDT	LT	0.0590	UGL				

Method: UU8

Analysis Number: GSJ004 Lab Number: -PLUME#2

Test Name	Corrected	l Value	Units	FC	<u>QC</u>	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE		24.	UGL				
12DCE 12DCLE	LT	6.1 0.72	UGL UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6	LT	2.7	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3		160.	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5 MIBK	LT LT	3.5 1.2	UGL UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		9.2	UGL		N	:	LO.000
CD2CL2		13.	UGL		N		10.000
ETBD10		8.5	UGL		N		10.000

Site Identification: WELL 02507

Sample Date: 11/06/89

0.0 Depth(ft): Sampling Technique: B

Method: UU8
Analysis Number: GSJ006 Lab Number: -PLUME#4

Test Name	Correct	ed Value	Units	FC	QC	QC Spike	
	Correct LT LT LT LT LT LT LT LT LT L	11. 14. 0.00 2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9 5.0 1.7 1.8 5.6 3.7 2.4 3.5 1.2 6.3	Units UGL	FC	Q NNNTTTTTTTTTTTTTTTTTTTTT	10.000 10.000 10.000	
TRCLE XYLEN	LT LT	2.0	UGL UGL		f T		

Method: WW8

Analysis Number: GWI006 Lab Number: -PLUME#2

Test

Corrected Value Units FC QC QC Spike Name HG LT 0.500 UGL

Site Identification: WELL 02509

Sample Date: 11/07/89

Sampling Technique: B Depth(ft): 0.0

Method: QQ8

Analysis Number: GGW008 Lab Number: -PLUME#5

Test

Corrected Value Units FC QC QC Spike Name

10.1 UGL DIMP LT 16.3 UGL DMMP LT

VV8 Method:

GHW008 Lab Number: -PLUME#5 Analysis Number:

Test

Corrected Value Units FC QC QC Spike Name

2.50 UGL AS LT

Method: PP8A

GIZ008 Lab Number: -PLUME#5 Analysis Number:

Test

Corrected Value Units FC QC QC Spike Name 1.14 UGL BTZ LT LT 1.08 UGL CPMS 1.98 UGL LT CPMSO 2.24 UGL LTCPMSO2 3.34 UGL DITH LTLT 1.16 UGL DMDS

LT 1.35 UGL OXAT

Method: NN8

Analysis Number: GJS008 Lab Number: -PLUME#5

Test

Corrected Value Units FC QC QC Spike Name

49000. UGL CL10000. UGL LT F 80000. UGL SO4

Site Identification: WELL 02509

Sample Date: 11/07/89

Depth(ft): 0.0 Sampling Technique: B

Method: MM8A

Analysis Number: GPT008 Lab Number: -PLUME#5

Test Name	Correc	ted Value	<u>Units</u>	FC	<u>QC</u>	QC S	Spike
ALDRN CL6CP CLDAN DLDRN ENDRN	LT LT LT	0.0830 0.0830 0.152 0.511 1.03	UGL UGL UGL UGL UGL	CC			
ISODR	LT	0.0560	UGL				

0.0460

PPDDT LT0.0590

LT

PPDDE

Method: UU8
Analysis Number: GSJ007 Lab Number: -PLUME#5

UGL .

UGL

						_		
Test Name	Corrected	Value	Units	FC	QC	QC	Spike	
111TCE 112TCE 11DCLE 12DCLE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	LTTTTTTTTLTTTTTTTTTTTTLTT	2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7 4.9 5.0 1.7 1.8 5.6 3.7 2.4 3.5 1.2 2.9 2.0 2.4	UGL	R	N N N	1	0.000	

Site Identification: WELL 02509

Sample Date: 11/07/89

Depth(ft): 0.0 Sampling Technique: B

Method: WW8

Analysis Number: GWI008 Lab Number: -PLUME#5

Test

Name Corrected Value Units FC QC QC Spike

HG LT 0.500 UGL

Site Identification: WELL 02511

Sample Date: 11/06/89

Depth(ft): 0.0 Sampling Technique: B

Method: QQ8

Analysis Number: GGW007 Lab Number: -PLUME#3

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Method: VV8

Analysis Number: GHW007 Lab Number: -PLUME#3

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: PP8A

Analysis Number: GIZ007 Lab Number: -PLUME#3

Test

Name Corrected Value Units FC QC QC Spike BTZ LT 1.14 UGL $T_{i}T_{j}$ 1.08 CPMS UGL LT 1.98 CPMSO UGL 2.24 CPMSO2 LTUGL DITH LT 3.34 UGL 1.16 DMDS LT UGL

Method: NN8

LT

Analysis Number: GJS007 Lab Number: -PLUME#3

UGL

Test

TAXO

Name Corrected Value Units FC QC QC Spike
CL 110000. UGL

1.35

F LT 10000. UGL 504 90000. UGL

Site Identification: WELL 02511

Sample Date: 11/06/89Depth(ft): 0.0 Sampling Technique: B

Method: MM8A

Analysis Number: GPT007 Lab Number: -PLUME#3

Test Name	Corre	ected Value	Units	FC	QC	QC	Spike
ALDRN	LT	0.0830	UGL				
CL6CP	LT	0.0830	UGL				
CLDAN	LT	0.152	UGL				
DLDRN	LT	0.0539	UGL				
ENDRN	LT	0.0600	UGL				
ISODR	LT	0.0560	UGL				
PPDDE	LT	0.0460	UGL				
PPDDT	LT	0.0590	UGL				

Method: UU8

Analysis Number: GSJ005 Lab Number: -PLUME#3

Site Identification: WELL 02511

Sample Date: 11/06/89

Depth(ft): 0.0 Sampling Technique: B

Method: WW8

Analysis Number: GWI007 Lab Number: -PLUME#3

Test

Name Corrected Value Units FC QC QC Spike

HG LT 0.500 UGL

Site Identification: WELL 02513

Sample Date: 11/09/89

Depth(ft): 0.0 Sampling Technique: B

Method: QQ8

Analysis Number: GGW018 Lab Number: PLUME#17

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Method: VV8

Analysis Number: GHW018 Lab Number: PLUME#17

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: NN8

Analysis Number: GJS018 Lab Number: PLUME#17

Test

Name Corrected Value Units FC QC QC Spike

CL 1600000. UGL F LT 10000. UGL SO4 59000. UGL

Method: MM8A

Analysis Number: GPU007 Lab Number: PLUME#17

Test

 Name
 Corrected Value
 Units
 FC
 QC
 QC
 Spike

 ALDRN
 LT
 0.0830
 UGL

 CL6CP
 LT
 0.0830
 UGL

LT 0.152 UGL CLDAN LT 0.0539 UGL DLDRN LT 0.0600 UGL ENDRN 0.0560 UGL ISODR LT LT 0.0460 UGL PPDDE 0.0590 LT UGL PPDDT

Site Identification: WELL 02513

Sample Date: 11/09/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSI009 Lab Number: PLUME#17

Test							
Name	Corrected	Value	Units	FC	QC	QC	Spike
	LT LT LT LT LT	Value 2.4 2.0 38. 12. 0.72 2.9 1.8 2.7 29. 5.0 5.0 5.6 3.7 3.7 2.4 3.5 1.2 2.9	Units UGL UGL UGL UGL UGL UGL UGL UG	<u>FC</u>	QC	QC	Spike
TRCLE XYLEN	LT LT	2.0	UGL UGL				
12DCD4 CD2CL2		9.5	UGL UGL		N N		10.000
ETBD10		9.6	UGL		N		0.000

Method: WW8

Analysis Number: GWI018 Lab Number: PLUME#17

Test Corrected Value Units FC QC QC Spike Name HG LT 0.500 UGL

Site Identification: WELL 02513

Sample Date: 11/09/89

Depth(ft): 0.0 Sampling Technique: B Method: PP8A

Analysis Number: QBA007 Lab Number: PLUME#17

Test Name	Correcte	d Value	<u>Units</u>	FC	<u>QC</u>	QC	Spike
BTZ CPMS CPMSO CPMSO2 DITH DMDS OXAT	LT LT LT LT LT LT	1.14 1.08 1.98 2.24 3.34 1.16 1.35	UGL UGL UGL UGL UGL UGL UGL				

Site Identification: WELL 02514

Sample Date: 11/09/89

Depth(ft): 0.0 Sampling Technique:

Method: QQ8

Analysis Number: GGW019 Lab Number: PLUME#18

Test

Name Corrected Value Units FC QC QC Spike

10.1 DIMP LT UGL 16.3 DMMP LT UGL

Method: VV8

Analysis Number: GHW019 Lab Number: PLUME#18

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: **8** NN

Analysis Number: GJS019 Lab Number: PLUME#18

Test

Name Corrected Value Units FC QC QC Spike

CL700000. UGL LT 10000. UGL SO4 LT50000. UGL

Method: A8MM

Analysis Number: GPU008 Lab Number: PLUME#18

Test

Corrected Value Name Units FC QC QC Spike ALDRN LT0.0830 UGL CL6CP LT0.0830 UGL 0.152 CLDAN LTUGL DLDRN 0.199 UGL C ENDRN 0.331 UGL C ISODR LT0.0560 UGL PPDDE LT0.0460 UGL LT 0.0590 PPDDT UGL

Site Identification: WELL 02514

Sampling Technique: B

Sample Date: 11/09/89

Depth(ft): 0.0 Sam

Method: UU8

Analysis Number: GSI010 Lab Number: PLUME#18

maa t							
Test Name	Corrected	Value	<u>Units</u>	FC	QC	QC	Spike
111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6 CCL4	LT LT LT LT LT LT LT	2.4 1.6 5.1 3.2 0.72 2.9 1.8 2.7 4.9	UGL UGL UGL UGL UGL UGL UGL UGL				
CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	ND LT	5.0 110. 1.8 5.6 3.7 3.7 2.4 3.5 1.2 2.9 2.0 2.4 10. 12. 9.6	UGL	R	N N	1	LO.000 LO.000 LO.000

Method: UU8

Analysis Number: GSL005 Lab Number: PLUME#24

Test Name	Corrected	l Value	Units	FC	<u>QC</u>	QC Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCE 12DCLE 13DMB BCHPD C6H6	LT LT LT LT LT LT LT	12. 12. 11. 2.4 1.6 1.4 3.2 0.72 2.9 1.8 2.7	UGL UGL UGL UGL UGL UGL UGL UGL UGL		NNTTTTTTT	10.000 10.000 10.000

т

Site Identification: WELL 02514

Sample Date: 11/09/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSL005 Lab Number: PLUME#24

Test Name	Corrected	Value	<u>Units</u>	FC	QC	QC	Spike
CCL4	LT	4.9	UGL		т		
CH2CL2	ND	5.0	UGL	R	\mathbf{T}		
CHCL3	LT	1.7	UGL		T		
CLC6H5	LT	1.8	UGL		T		
DBCP	LT	5.6	UGL		\mathbf{T}		
DCPD	LT	3.7	UGL		T		
DMDS	LT	3.7	UGL		T		
ETC6H5	LT	2.4	UGL		\mathbf{T}		
MEC6H5	LT	3.5	UGL		\mathbf{T}		
MIBK	LT	1.2	UGL		\mathbf{T}		
TCLEE	LT	2.9	UGL		\mathbf{T}		
TRCLE	LT	2.0	UGL		\mathbf{T}		

Method: WW8

LT

Analysis Number: GWI019 Lab Number: PLUME#18

UGL

Test

Test

OXAT

XYLEN

2.4

HG LT 0.500 UGL

Method: PP8A

Analysis Number: QBA008 Lab Number: PLUME#18

UGL

Units FC QC QC Spike Name Corrected Value BTZ LT1.14 UGL 1.08 CPMS LTUGL 1.98 CPMSO LT UGL CPMSO2 LT2.24 UGL DITH LT 3.34 UGL LTDMDS 1.16 UGL

1.35

LT

Site Identification: WELL 02515

Sample Date: 11/08/89

Depth(ft): 0.0 Sampling Technique: B

Method: QQ8

Analysis Number: GGW014 Lab Number: PLUME#12

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Method: VV8

Analysis Number: GHW014 Lab Number: PLUME#12

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: PP8A

Analysis Number: GIZ014 Lab Number: PLUME#12

Test

Units FC QC QC Spike Corrected Value Name 1.14 UGL LT BTZ 1.08 UGL LT CPMS 1.98 UGL LT CPMSO LT 2.24 UGL CPMSO2 3.34 UGL LT DITH 1.16 UGL DMDS LT

1.35

Method: NN8

LT

Analysis Number: GJS014 Lab Number: PLUME#12

UGL

UGL

Test

OXAT

Name Corrected Value Units FC QC QC Spike

CL LT 32000. UGL

F LT 10000. UGL

F LT 10000. SO4 290000.

Site Identification: WELL 02515

Sample Date: 11/08/89

Depth(ft): 0.0 Sampling Technique: B

Method: MM8A

Analysis Number: GPT014 Lab Number: PLUME#12

Test Name	Corre	cted Value	<u>Units</u>	FC	QC	QC Spike
ALDRN	LT	0.0830	UGL			
CL6CP	LT	0.0830	UGL			
CLDAN	LT	0.152	UGL			
DLDRN	LT	0.0539	UGL			
ENDRN	LT	0.0600	UGL			
ISODR	LT	0.0560	UGL			
PPDDE	LT	0.0460	UGL			
PPDDT	LT	0.0590	UGL			

Method: UU8

Analysis Number: GSI004 Lab Number: PLUME#12

Test							
Name	Corrected	d Value	Units	FC	<u>QC</u>	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE		7.1	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6	LT	2.7	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3		59.	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		10.	UGL		N	1	10.000
CD2CL2		12.	UGL		N	1	10.000
ETBD10		9.8	UGL		N	1	10.000

Site Identification: WELL 02515

Sample Date: 11/08/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSI006 Lab Number: PLUME#14

Test <u>Name</u>	Corrected	d Value	Units	FC	QC	QC Spike
12DCD4 CD2CL2 ETBD10 111TCE 112TCE 11DCLE 12DCLE 12DCLE 13DMB BCHPD C6H6 CCL4 CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MIBK TCLEE TRCLE XYLEN		9.9 11. 9.4 2.4 1.6 1.4 3.7 2.9 1.8 2.7 4.9 5.0 1.7 1.8 5.6 3.7 2.4 3.7 2.9 2.9 2.4	UGL	R	NNNTTTTTTTTTTTTTTTTTTT	10.000 10.000 10.000

Method: WW8

Analysis Number: GWI014 Lab Number: PLUME#12

Test

Name Corrected Value Units FC QC QC Spike

HG LT 0.500 UGL

Site Identification: WELL 02516

Sample Date: 11/07/89

0.0 Depth(ft): Sampling Technique:

Method: QQ8

Analysis Number: GGW009 Lab Number: -PLUME#6

Test

Corrected Value Name Units FC QC QC Spike

DIMP LT10.1 UGL DMMP LT 16.3 UGL

Method: 8VV

Analysis Number: GHW009 Lab Number: -PLUME#6

Test

Name Corrected Value Units FC QC QC Spike

AS 4.90 UGL

Method: PP8A

Analysis Number: GIZ009 Lab Number: -PLUME#6

Test

Name Corrected Value Units FC QC QC Spike 1.14 BTZLTUGL 1.08 CPMS LTUGL LT 1.98 CPMSO UGL CPMSO2 LT2.24 UGL 3.34 LT DITH UGL DMDS LT 1.16 UGL

1.35

NN8 Method:

LT

Analysis Number: GJS009 Lab Number: -PLUME#6

UGL

Test

TAXO

Corrected Value Name Units FC QC QC Spike

CL200000. UGL 10000. LT UGL F SO4 200000. UGL

Site Identification: WELL 02516

Sample Date: 11/07/89

Depth(ft): 0.0 Sampling Technique: B

Method: MM8A

Analysis Number: GPT009 Lab Number: -PLUME#6

Test Name	Correc	ted Value	Units	FC	QC	QC	Spike	•
ALDRN	LT	0.0830	UGL					
CL6CP	LT	0.0830	UGL					
CLDAN		0.309	UGL	C				
DLDRN		0.639	UGL	C				
ENDRN	LT	0.0600	UGL					
ISODR	LT	0.0560	UGL					
PPDDE	LT	0.0460	UGL					
PPDDT	LT	0.0590	UGL					

Method: UU8

Analysis Number: GSJ008 Lab Number: -PLUME#6

Test								
Name	Corrected	Value	Units	FC	QC	QC	Spike	
111TCE	LT	2.4	UGL					
112TCE	LT	1.6	UGL					
11DCLE	LT	1.4	UGL					
12DCE	LT	3.2	UGL					
12DCLE	LT	0.72	UGL					
13DMB	LT	2.9	UGL					
BCHPD	LT	1.8	UGL					
C6H6	LT	2.7	UGL					
CCL4	LT .	4.9	UGL					
CH2CL2	ND	5.0	UGL	R				
CHCL3		16.	UGL					
CLC6H5	LT	1.8	UGL					
DBCP	LT	5.6	UGL					
DCPD	LT	3.7	UGL					
DMDS	LT	3.7	UGL					
ETC6H5	LT	2.4	UGL					
MEC6H5	LT	3.5	UGL					
MIBK	LT	1.2	UGL					
TCLEE	LT	2.9	UGL					
TRCLE		5.0	UGL					
XYLEN	LT	2.4	UGL					
12DCD4		11.	UGL		N		10.000	
CD2CL2		13.	UGL		N		LO.000	
ETBD10		9.4	UGL		N	-	10.000	

Site Identification: WELL 02516

<u>Sample Date</u>: 11/07/89

Depth(ft): 0.0 Sampling Technique: B

Method: WW8

Analysis Number: GWI009 Lab Number: -PLUME#6

Test

Corrected Value Units FC QC QC Spike Name

HG LT 0.500 UGL

Site Identification: WELL 02517

Sample Date: 11/08/89

LT

Depth(ft): 0.0 Sampling Technique: B

Method: QQ8

Analysis Number: GGW015 Lab Number: PLUME#13

Test

DMMP

Name Corrected Value Units FC QC QC Spike
DIMP LT 10.1 UGL

16.3

Method: VV8

Analysis Number: GHW015 Lab Number: PLUME#13

UGL

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: PP8A

Analysis Number: GIZ015 Lab Number: PLUME#13

Test

Corrected Value Units FC QC QC Spike Name UGL 1.14 BTZ LT 1.08 UGL LT CPMS 1.98 UGL CPMSO LT 5.88 UGL C CPMSO2 3.34 UGL DITH LT LT 1.16 UGL DMDS 1.35 UGL LTTAXO

Method: NN8

Analysis Number: GJS015 Lab Number: PLUME#13

Test

Site Identification: WELL 02517

Sample Date: 11/08/89

Depth(ft): 0.0 Sampling Technique: B

Method: MM8A

Analysis Number: GPT015 Lab Number: PLUME#13

Test Name	Corr	ected Value	Units	FC	QC	QC	Spike
ALDRN	LT	0.0830	UGL				
CL6CP	LT	0.0830	UGL				
CLDAN	LT	0.152	UGL				
DLDRN	LT	0.0539	UGL				
ENDRN	LT	0.0600	UGL				
ISODR	LT	0.0560	UGL				
PPDDE		0.114	UGL	C			
PPDDT	LT	0.0590	UGL				

Method: UU8

Analysis Number: GSI005 Lab Number: PLUME#13

Test							
Name	Corrected	Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6	LT	2.7	UGL				
CCL4		15.	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3		11.	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		9.6	UGL		N		10.000
CD2CL2		12.	UGL		N	-	10.000
ETBD10		9.1	UGL		N	1	10.000

Site Identification: WELL 02517

Sample Date: 11/08/89

Sampling Technique: B Depth(ft): Method: WW8 0.0

Analysis Number: GWI015 Lab Number: PLUME#13

Test

Corrected Value Units FC QC QC Spike Name

LT0.500 UGL НG

Site Identification: WELL 02518

Sample Date: 11/07/89

Depth(ft): 0.0 Sampling Technique: B

Method: QQ8

Analysis Number: GGW010 Lab Number: -PLUME#7

Test

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Method: VV8

Analysis Number: GHW010 Lab Number: -PLUME#7

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: PP8A

Analysis Number: GIZ010 Lab Number: -PLUME#7

Test

Name Corrected Value Units FC QC QC Spike

BTZ LT 1.14 UGL LT 1.08 UGL CPMS 1.98 LT UGL CPMSO CPMSO2 LT 2.24 UGL DITH LT 3.34 UGL DMDS LT 1.16 UGL LT 1.35 UGL TAXO

Method: NN8

Analysis Number: GJS010 Lab Number: -PLUME#7

Test

Name Corrected Value Units FC QC QC Spike

CL 210000. UGL F LT 10000. UGL S04 250000. UGL

Site Identification: WELL 02518

Sample Date: 11/07/89
Depth(ft): 0.0 Sampling Technique: B

Method: MM8A

Analysis Number: GPT010 Lab Number: -PLUME#7

Test Name	Corre	ected Value	Units	FC	QC	QC Spike
ALDRN	LT	0.0830	UGL			
CL6CP	LT	0.0830	UGL			
CLDAN	LT	0.152	UGL			
DLDRN		0.101	UGL	С		
ENDRN	LT	0.0600	UGL			
ISODR	LT	0.0560	UGL			
PPDDE	LT	0.0460	UGL			
PPDDT	T. T	0.0590	UGL.			

Method: UU8

Analysis Number: GSJ009 Lab Number: -PLUME#7

Test	0	****	****	50	0.7	0.0	0 - 11-
Name	Corrected	value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE		3.2	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT (0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6	LT	2.7	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3		67.	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LТ	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE		4.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		11.	UGL		N		LO.000
CD2CL2		12.	UGL		N		10.000
ETBD10		11.	UGL		N	:	L0.000

Site Identification: WELL 02518

Sample Date: 11/07/89

Depth(ft): 0.0 Sampling Technique: B

Method: ww8

Analysis Number: GWI010 Lab Number: -PLUME#7

Test

Corrected Value Units FC QC QC Spike Name

HG LT 0.500 UGL

Site Identification: WELL 02577

Sample Date: 11/10/89

Depth(ft): 0.0 Sampling Technique: B

Method: QQ8

Analysis Number: GGX007 Lab Number: PLUME#28

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Method: VV8

Analysis Number: GHW022 Lab Number: PLUME#28

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: NN8

Analysis Number: GJT007 Lab Number: PLUME#28

Test

Name Corected Value Units FC QC QC Spike

CL 860000. UGL F LT 10000. UGL SO4 210000. UGL

Method: MM8A

Analysis Number: GPU012 Lab Number: PLUME#28

Test

Corrected Value Units FC QC QC Spike Name 0.0830 ALDRN LT UGL LT 0.0830 CL6CP UGL 0.152 CLDAN LT UGL 0.0539 DLDRN LTUGL LT0.0600 UGL ENDRN LT 0.0560 UGL ISODR LT0.0460 UGL PPDDE 0.0590 PPDDT LT UGL

Site Identification: WELL 02577

Sample Date: 11/10/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSL009 Lab Number: PLUME#28

Test Name	Corrected	Value	<u>Units</u>	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE		46.	UGL				
12DCE		9.7	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
С6Н6	LT	2.7	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3		61.	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE TRCLE	LT LT	2.9	UGL UGL				
XYLEN	LT	2.4	UGL				
12DCD4	T. T.	10.	UGL		N		10.000
CD2CL2		11.	UGL		N		10.000
ETBD10		9.2	UGL		N		10.000
		J . L	001		7.4	•	10.000
Method:	WW8						

Analysis Number: GWJ007 Lab Number: PLUME#28

Test

Corrected Value Units FC QC QC Spike Name

LT0.500 HG UGL

Site Identification: WELL 02577

Sample Date: 11/10/89

Depth(ft): 0.0 Sampling Technique: B

Method: PP8A
Analysis Number: QBA012 Lab Number: PLUME#28

Test Name	Correct	ed Value	Units	FC	<u>QC</u>	QC	Spike
BTZ CPMS CPMSO CPMSO2 DITH DMDS OXAT	LT LT LT LT LT LT	1.14 1.08 1.98 2.24 3.34 1.16 1.35	UGL UGL UGL UGL UGL UGL UGL				

Site Identification: WELL 02585

Sample Date: 11/10/89

Depth(ft): 0.0 Sampling Technique: B

Method: QQ8

Analysis Number: GGX008 Lab Number: PLUME#29

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Method: VV8

Analysis Number: GHW023 Lab Number: PLUME#29

Test

Name Corrected Value Units FC QC QC Spike

AS LT 2.50 UGL

Method: NN8

Analysis Number: GJT008 Lab Number: PLUME#29

Test

Name Corrected Value Units FC QC QC Spike

CL 81000. UGL F LT 10000. UGL SO4 84000. UGL

Method: MM8A

Analysis Number: GPU013 Lab Number: PLUME#29

Test

Name Corrected Value Units FC QC QC Spike 0.0830 ALDRN LTUGL 0.0830 CL6CP LTUGL CLDAN LT 0.152 UGL DLDRN 0.0546 UGL C ENDRN LT0.0600 UGL LT 0.0560 ISODR UGL LT 0.0460 PPDDE UGL PPDDT LT 0.0590 UGL

Site Identification: WELL 02585

Sample Date: 11/10/89
Depth(ft): 0.0 S 0.0 Sampling Technique: B

Method: UU8
Analysis Number: GSL010 Lab Number: PLUME#29

Test							
Name	Corrected	Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL				
112TCE	LT	1.6	UGL				
11DCLE	LT	1.4	UGL				
12DCE	LT	3.2	UGL				
12DCLE	LT	0.72	UGL				
13DMB	LT	2.9	UGL				
BCHPD	LT	1.8	UGL				
C6H6	LT	2.7	UGL				
CCL4	LT	4.9	UGL				
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL				
CLC6H5	LT	1.8	UGL				
DBCP	LT	5.6	UGL				
DCPD	LT	3.7	UGL				
DMDS	LT	3.7	UGL				
ETC6H5	LT	2.4	UGL				
MEC6H5	LT	3.5	UGL				
MIBK	LT	1.2	UGL				
TCLEE	LT	2.9	UGL				
TRCLE	LT	2.0	UGL				
XYLEN	LT	2.4	UGL				
12DCD4		11.	UGL		N		10.000
CD2CL2		12.	UGL		N		10.000
ETBD10		9.8	UGL		N		10.000

Method: UU8

Analysis Number: GSL011 Lab Number: PLUME#30

Test Name	Corrected Va	lue <u>Units</u>	FC QC	QC Spike
111TCE 112TCE	42 41	. UGL	N N	40.000
11DCLE 12DCD4	42 42 42	. UGL	N N N	40.000 40.000 40.000
12DCE 12DCLE 13DMB	44 21	. UGL	N N	40.000
BCHPD C6H6	43	. UGL	N N	40.000
CCL4 CD2CL2	42 55		N	$40.000 \\ 40.000$

Site Identification: WELL 02585

Sample Date: 11/10/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSL011 Lab Number: PLUME#30

Τe	e s	; t
----	-----	-----

Name	Corrected	Value	<u>Units</u>	FC	QC	QC Spike
CH2CL2		38.	uct	R	NT.	40.000
			UGL	R	N	40.000
CHCL3		44.	UGL		N	40.000
CLC6H5		40.	UGL		N	40.000
DBCP		41.	UGL		N	40.000
DCPD		40.	UGL		N	40.000
DMDS		42.	UGL		N	40.000
ETBD10		41.	UGL		N	40.000
ETC6H5		42.	UGL		N	40.000
MEC6H5		41.	UGL		N	40.000
MIBK		39.	UGL		N	40.000
TCLEE		45.	UGL		N	40.000
TRCLE		41.	UGL		N	40.000
XYLEN		62.	UGL		N	60.000

Method: WW8

Analysis Number: GWJ008 Lab Number: PLUME#29

Test

Corrected Value Units FC QC QC Spike Name

HG LT0.500 UGL

Method: PP8A

Analysis Number: QBA013 Lab Number: PLUME#29

Γ	е	S	t	

Name	Corre	cted Value	Units	FC	<u>QC</u>	QC	Spike
BTZ	LT	1.14	UGL				
CPMS	LT	1.08	UGL		•		
CPMSO	LT	1.98	UGL				
CPMSO2	LT	2.24	UGL				
DITH	LT	3.34	UGL				
DMDS	LT	1.16	UGL				
TAXO	LT	1.35	UGL				

Site Identification: WELL 02596

Sample Date: 12/20/89

Depth(ft): 0.0 Sampling Technique:

Method: VV8

Analysis Number: GHX009 Lab Number: PLUME#46

Test

Corrected Value Units FC QC QC Spike Name

1.00 UGL AS LT

Method: NN8

GJV009 Lab Number: PLUME#46 Analysis Number:

Test

Corrected Value Units FC QC QC Spike Name

110000. UGL CL 10000. UGL F LT 98000. UGL SO4

Method: A8MM

Lab Number: PLUME#46 Analysis Number: GPY009

Test

Corrected Value Units FC QC QC Spike Name

0.0830 LT UGL ALDRN CL6CP LT 0.0830 UGL CLDAN LT 0.152 UGL LT 0.0539 UGL DLDRN 0.0637 UGL C ENDRN LT 0.0560 UGL ISODR 0.0460 UGL PPDDE LT 0.0590 UGL LT PPDDT

UU8 Method:

Analysis Number: GS0004 Lab Number: PLUME#46

Test Name

Corrected Value Units FC QC QC Spike

111TCE 2.4 UGL LT 1.6 112TCE LTUGL LT 1.4 UGL 11DCLE LT 3.2 UGL 12DCE LT 0.72 UGL 12DCLE 2.9 UGL 13DMB LT

1.8 UGL BCHPD LT2.7 UGL LTC6H6

Site Identification: WELL 02596

Sample Date: 12/20/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSO004 Lab Number: PLUME#46

Test Name	Corrected	Value	<u>Units</u>	FC	QC	QC	Spike
CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE XYLEN 12DCD4 CD2CL2 ETBD10	ND LT	5.0 1.7 1.8 5.6 3.7 3.7 2.4 3.5 1.2 2.9 2.0 2.4 10.	UGL	R	N N	1	0.000

Method: UU8
Analysis Number: GSO005 Lab Number: PLUME#48

Test Name	Correcte	d Value	Units	FC	QC	QC	Spike
111TCE	LT	2.4	UGL	D			
112TCE	LT	1.6	UGL	D			
11DCLE	LT	1.4	UGL	D			
12DCE	LT	3.2	UGL	D			
12DCLE	LT	0.72	UGL	D			
13DMB	LT	2.9	UGL	D			
BCHPD	LT	1.8	UGL	D			
C6H6	LT	2.7	UGL	D			
CCL4	LT	4.9	UGL	D			
CH2CL2	ND	5.0	UGL	R			
CHCL3	LT	1.7	UGL	D			
CLC6H5	LT	1.8	UGL	D			
DBCP	LT	5.6	UGL	D			
DCPD	LT	3.7	UGL	D			
DMDS	LT	3.7	UGL	D			
ETC6H5	LT	2.4	UGL	D			
MEC6H5	LT	3.5	UGL	D			
MIBK	LT	1.2	UGL	D			
TCLEE	LT	2.9	UGL	D			
TRCLE	LT	2.0	UGL	D			

Site Identification: WELL 02596

Sample Date: 12/20/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSO005 Lab Number: PLUME#48

Test

Name	Corrected	Value	Units	FC	QC	QC Spike
XYLEN	LT	2.4	UGL	D		
12DCD4		11.	UGL	D	N	10.000
CD2CL2		12.	UGL	D	N	10.000
ETBD10		10.	UGL	D	N	10.000

Method: WW8

Analysis Number: GWL009 Lab Number: PLUME#46

Test

Name Corrected Value Units FC QC QC Spike

HG LT 0.500 UGL

Method: QQ8

Analysis Number: QAA009 Lab Number: PLUME#46

Test

Name Corrected Value Units FC QC QC Spike
DIMP LT 10.1 UGL

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Method: PP8A

Analysis Number: QBD009 Lab Number: PLUME#46

Test

Name	Corre	cted Value	Units	FC	<u>QC</u>	QC	Spike
BTZ	LT	1.14	UGL				
CPMS	LT	1.08	UGL				
CPMSO	LT	1.98	UGL				
CPMSO2	LT	2.24	UGL				
DITH	LT	3.34	UGL				
DMDS	LT	1.16	UGL				
OXAT	LT	1.35	UGL				

Site Identification: WELL 02598

Sample Date: 12/20/89

Depth(ft): 0.0 Sampling Technique: B

Method: VV8

Analysis Number: GHX010 Lab Number: PLUME#47

Test

Name Corrected Value Units FC QC QC Spike

AS LT 1.00 UGL

Method: NN8

Analysis Number: GJV010 Lab Number: PLUME#47

Test

Name Corrected Value Units FC QC QC Spike

CL 1300000. UGL F LT 10000. UGL SO4 130000. UGL

Method: MM8A

Analysis Number: GPY010 Lab Number: PLUME#47

Test

PPDDT

Test

CCL4

Corrected Value Name Units FC QC QC Spike ALDRN LT 0.0830 UGL CL6CP LT 0.0830 UGL CLDAN LT 0.152 UGL DLDRN 0.0959 C UGL 0.383 C ENDRN UGL LT0.0560 ISODR UGL PPDDE LT0.0460 UGL

0.0590

4.9

Method: UU8

LT

Analysis Number: GSN008 Lab Number: PLUME#47

UGL

UGL

Corrected Value Name Units FC QC QC Spike 111TCE $\mathbf{L}\mathbf{T}$ 2.4 UGL 112TCE LT 1.6 UGL 11DCLE 59. UGL 12DCE 13. UGL

12DCLE LT0.72 UGL 13DMB LT2.9 UGL BCHPD LT1.8 UGL 2.7 C6H6 LTUGL

LT

Site Identification: WELL 02598

Sample Date: 12/20/89

Depth(ft): 0.0 Sampling Technique: B

Method: UU8

Analysis Number: GSN008 Lab Number: PLUME#47

Test <u>Name</u>	Correc	ted Value	<u>Units</u>	FC	QC	QC Spike	
CH2CL2 CHCL3 CLC6H5 DBCP DCPD DMDS ETC6H5 MEC6H5 MIBK TCLEE TRCLE	ND LT LT LT LT LT LT LT	5.0 200. 1.8 5.6 3.7 3.7 2.4 3.5 1.2 3.0 4.7	UGL UGL UGL UGL UGL UGL UGL UGL UGL	R			
XYLEN 12DCD4 CD2CL2 ETBD10	LT	2.4 12. 11. 10.	UGL UGL UGL		N N N	10.000 10.000 10.000	

Method: WW8

Analysis Number: GWL010 Lab Number: PLUME#47

Test

Name Corrected Value Units FC QC QC Spike

HG LT 0.500 UGL

Method: 008

Analysis Number: QAA010 Lab Number: PLUME#47

Test

Name Corrected Value Units FC QC QC Spike

DIMP LT 10.1 UGL DMMP LT 16.3 UGL

Site Identification: WELL 02598

Sample Date: 12/20/89
Depth(ft): 0.0 Sampling Technique: B

Method: PP8A

Analysis Number: QBD010 Lab Number: PLUME#47

Test Name	Correc	ted Value	Units	FC	QC	QC	Spike
BTZ CPMS CPMSO CPMSO2 DITH DMDS OXAT	LT LT LT LT LT LT LT	1.14 1.08 1.98 2.24 3.34 1.16 1.35	UGL UGL UGL UGL UGL UGL				

APPENDIX C

Well Logs for Monitoring Wells and Piezometers Constructed in 1989

Borehole Well No.	# 01<>g	Project/	Task No's.: 3706.01-01
Date Started	: 11/21/89	Date	e Completed : 11/22/59
Drilling Inspector:	Grasa Allen		Reviewed amB 1-9-90
Drilling Company :			
Surveyed Location: N 127767.5	Survey	yed on: GS <u>\$2</u>	678/ 4
E 2/9/5066.8			960 ft.
Total Depth Drilled :3/	8 ft Drilling	_	
Static Water Level Depth :	24.62 ft.		
1 /	w TOC 11-27-89		
Sample	Well	Sul	bsurface Information
Information	Construction		
ft.) nt/	ي ج	o l	. 45
Depth Below Ground Surface (ft.) Blow Count/ Feed Pressure Sample Type Sample Depth/% Recovery	Schematic Material Description	Borehole Schematic	Lithologic and Hydrologic Description
Depth E Ground Surface Blow Co Feed Pressur Sample Depth/ Recove	Schema Materiál Descript	hen	hok d droi scri
Su Sa	S _C	Sc	Lith and Hydi Des
-	,		
	Dia 6"Protective Cooing		
	- wing top wap	· · · · · · · · · · · · · · · · · · ·	
	Concrete Rad		Constant Standards
		0-4	0-2.5 sand: clayey, v.f. to coarse
- % -			grained; dk brown; dry 2.5-4 sand; silty, v.f. to v. coarse —
00/	cement grout		grained; It brown; dry
E_{ς}		4-9	same: silty, v.f. to v. coarse
3 00	2" Dia. PVC Casing	·	grained; it brown; dry
7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7	2 313.1100	9-14 9	-10.5 <u>sand:</u> silty, v.f. to v. coarse
- 122		10	qrained; It brown; dry -5-12-5 <u>sand:</u> clayey, silty, v.f. to —
- 10 28			coarse grained; ned brown; dry 2.5-14 sand; clayey, v.f. to coarse
- B.			grained; med brown; slightly
			eoist; stiff
F 2 52		14-19 14	-15.9 sand: clayey, v.f. to coarse grained; ned brown; slightly
15 3 3		=::	moist; stiff
20 1	1 A	7777	i.f-lf <u>claystone;</u> sandy, v.f. to v coarse grained; dk brown to
1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Dentonite	===	gray; dry; moderately withd; moderately fractured; friable
E 5.4	E E E		-
20 9	== #10-20 sand	19-24 1	7-20.7 <u>claystone;</u> sandy, v.f. to med grained; dk brown to bluish
200)	(A) = 1 (A) =	7.1.2.2.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	gray; moist; highly fractured
	334 700 ∀	7-24	0.7-22.4 <u>sandstones</u> clayey, v.f. to ned grained; It brown; slightly
	2" Dia 0.02" Sht	7	omist; cemented; hard

Borehole Well No.: # 01579 Project/Task No's.: 3048/37062121

Date Started : 11/22/89 Date Completed : 11/27/89

Drilling Inspector: Craig Allen Reviewed amp 1-9-90

Drilling Company: Arrow Drilling

Surveyed

Surveyed Location: N 177569.576

F 2194638-589

Surveyed

Elevation: GS 5268.90 ft.

TOC 5269.32 ft.

Total Depth Drilled: 28.60 ft. Drilling Type: Hollow Stem Auger

Static Water Level Depth : 24.80 ft.

Below TOC, 11-28-89

Sample Informati	on	Cor	Well struction		Sı	ıbsurface Information
Depth Below Ground Surface (ft.) Blow Count/ Feed Pressure	Sample Depth/% Recovery	Well Schematic	Material Description	Borehole Schematic		Lithologic and Hydrologic Description
10 A 1	ros constru 30% omporten comporten		- 6" Dia. Protective casing of casing cap Concrete Pad - Cement Grout - 2" Dia. PVC Casing - Bentonite - 2" Dia. O.C.2" Slot PVC Screen 2 18.6-28.6			-Ground-Surface sand: silty, v.f. to v. coarse qrained; lt to ned brown; dry; approx. one ft. topsoil sand: silty; v.f. to v. coarse qrained; lt brown; dry to slightly noist 9-12.7 sand: silty; v.f. to v. coarse qrained; lt brown; dry to slightly noist 12.7-14 sand: clayey, v.f. to v.coarse qrained; ned brown; slightly noist; stiff; 202 tan clayey sand noduals 14-15.2 sand: clayey; v.f. to v.coarse qrained; ned brown; slightly noist; stiff 15.2-17.5 sand: v.f. to v. coarse qrained; ned brown; slightly noist coapacted 17.5-18.6 sand: clayey; v.f. to ned qrained; ned brown; slightly noist; stiff 18.6-19 claystone; sandy, v.f. to coarse qrained; ned brown; dry to noist; noderately fractured; slightly weathered; hlocky structure

Page No. : 1 of 2

Borehole / Well No.: # D1578 Project/Task No's.: 8048/3766.01

Date Started : 11/21/89

	Sam nform		n	Co	Well nstruction		Subsurface Information
Depth Below Ground Surface (ft.)	Blow Count/ Feed Pressure	Sample Type	Sample Depth/% Recovery	Well Schematic	Material Description	Borehole Schematic	Lithologic and Hydrologic Description
90 1 3 3 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Blo	Continuous Sampling	2001 2001	PS HIGHWANGHAMINI	-2" Dia, 0.02 Slot PVC -Screen -#10-20 sand Threaded Bottom Plug		24-29 24-24.9 sandstone; clayey, v.f. to ned grained; friable 24.9-25.5 siltstone; sandy, v.f. to ned grained; nedbrown; saturated; nedbrately fractured; lightly neathered 25.5-29 sandstone; clayey, v.f. to ned grained; lt brown; dry to slightly nest; poorly cenented; friable 29-31.8 29-31.5 sandstone; clayey, v.f. to coarse grained; ned brown to mrange; noist to saturated; highly fractured; friable 31.5-31.8 siltstone; sandy, v.f. to ned grained; ned brown to arrange; dry; slightly fractured; hard; grades to a claystone; sandy
-							

Page No. : 2, +2

Borehole/Well No.): # 1.15 79 Project/Task No's.: 3048/3706.01.01

Date Started : 11/22/89

Date Completed: 11/27/89

Sam	ple			Well	Subsurface Information				
Inform	atior		Cor	struction	Т				
Surface (ft.) Blow Count/ Feed Pressure	Sample Type	Sample Depth/% Recovery	Well Schematic	Material Description	Borehole Schematic		Lithologic and Hydrologic Description		
286		2021		-2"Dia 0.02" Slot PVC Screen -#10-20 sand -Threaded Bottom Plug	4	19-24 19-22 22-24	claystone; sandy, v.f. to med grained; and brown to green; dry to moist; highly fractured moderately withd claystone; sandy, v.f. to coarse grained; it brown; dry; highly fractured; moderately withd		
	BARREL					24-24 ² , 28,6	claystone; sandy, v.f. to coarse grained; ned brown, tan to orange; slightly noist; highly fractured; minor whid; slightly friable; distinct BCPD odor; few thin interbeds of sandstone; v.f. to v.coarse grained; lt brown approx 26- 27		
MA	CNITENTIOUS SAM								

Page No.: 2 → ?

Borehole (Well No. ; # 01580 Project/Task No's. : 8048 /3706.01.01

Date Completed: 11/21/89

Drilling Inspector: Craig Allen

Reviewed amB 1-9-90

Drilling Company: Arrow Drilling

Surveyed

Location: N 177289.776 E 2185140.603 Surveyed

Elevation: GS 5260 82 ft.

TOC 5262-80 ft.

Total Depth Drilled: 28.8 ft. Drilling Type: Hollow Stem Auger

Static Water Level Depth: 20.2 ft.

Below TOC, 11-27-89

Debth Below Captage Cand Carrier	Sampl Informa	le tion	Well Construction		Subsurface Information
Ground Surface Cement Cement Ground Ground Surface Ground Ground Surface Ground Ground	Depth Below Ground Surface (ft.) Blow Count/ Feed Pressure	Sample Type Sample Depth/% Recovery	Well Schematic Material Description	Borehole Schematic	Lithologic and Hydrologic Description
Cement Grave Grave Grave Grave Grave Grave Casing Land: silty, v.f. to see grained; dis brown; assist top suit 2.4-4 sand; silty, v.f. to v. Coarse grained; light brown; slightly asist Land: silty, v.f. to v. Coarse grained; light brown; slightly asist Find-20 9-14 9-9.8 sand; silty, v.f. to v. coarse grained; light brown; slightly asist 9.8-14 sand; clarer, v.f. to v. coarse grained; light brown; slightly asist 9.8-14 sand; clarer, v.f. to v. coarse grained; light brown; slightly asist 9.8-14 sand; clarer, v.f. to v. coarse grained; light brown; slightly asist 9.8-14 sand; clarer, v.f. to v. coarse grained; clarer, v.f. to v. coarse			Dia Enfratective Covins Top Caps Concrete and		
18-19 sand; clayer, v.f. to v.coarse grained; reddish brown; noist 19-24 19-23.2 sand; clayer, v.f. to v.coarse grained; reddish brown; noist to saturated 23.2-24 claystone; sandy, v.f. to v.coarse grained; ned brown; dry to noist; noderately wibd;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100% 100% 100% Conpection	cement Crost 2" Bra Puc Casing #10-20 Sand O.C2" SIOT 2" Dia Puc Gastra Green @8.8-28.8'		0-4 0-2.4 sand; silty, v.f. to ned grained; dk brown; noist; top soil 2.4-4 sand; silty, v.f. to v. coarse grained; light brown; dry 4-9 sand; silty, v.f. to v. coarse grained; light brown; slightly noist 9-14 9-9.8 sand; silty, v.f. to v. coarse grained; light brown; slightly noist 9.8-14 sand; clayey, v.f. to v.coarse grained; reddish brown; noist; w/ ninor tan clayey sand nodeals 14-19 14-15.4 sand; clayey, v.f. to v.coarse grained; reddish brown; noist 15.4-18 clay; sandy, v.f. to v.coarse grained; reddish brown; noist 18-19 sand; clayey, v.f. to v.coarse grained; reddish brown; noist 18-19 sand; clayey, v.f. to v.coarse grained; reddish brown; noist 19-24 19-23.2 sand; clayey, v.f. to v.coarse grained; reddish brown; noist to saturated

Borehole/Well No.: 301580 Project/Task No's.: 3706.01.01

Date Started: 11/21/85 Date Completed: 11/21/86

li	Sam nform	ple atio	n	Co	Well nstruction	Subsurface Information					
Depth Below Ground Surface (ft.)	Blow Count/ Feed Pressure	Sample Type	Sample Depth/% Recovery	Well Schematic	Material Description	Borehole Schematic	Lithologic and Hydrologic Description				
30	NA	NUS SAMPLING	9,00/		-#10-20 Sand C.C2*5672" Din PUL Sarce n Threadal bottom		24-28.8 24-27.3 claystone; sandy, v.f. to v. coarse grained; ned brown; saturated 27.3-28.8 siltstone; sandy, v.f. to med grained; dk gray to blue; v. dry; v. friable; inm thick bedding planes thru out				
		SOUTENADO									
		a constant as diagram									
						-					

Page No.: 2:42

Borehole/Well No.: #01581 Project/Task No's.: 2706.01.01 Date Started : 11/20/89 Date Completed : 11/20/89 Drilling Inspector: Crace Allen Reviewed amB 1-9-90

Drilling Company: Arrow Drilling

Surveyed

Surveyed

Location: N 177262.445 E 2184971.686 E 2184871.686

Elevation: GS <u>5266-68</u> ft.

TOC 5268-54 ft.

Total Depth Drilled: 33.5 ft. Drilling Type: Hallow Stem Auger

Static Water Level Depth : 25.6c ft.

Boku TOC, 11-28-89											
Sample Information	Co	Well Construction			ubsurface Information						
Depth Below Ground Surface (ft.) Blow Count/ Feed Pressure Sample Type	Recovery Well Schematic	Material Description	Borehole Schematic		Lithologic and Hydrologic Description						
CONTINUOUS SAMPLING LU/SS SAMPLE BARREL	vai	-6" Nortedime Casing Top cap concert pad Cement -2" Din PUC Casing # 10-20 - Sand Band Box" Slot -2" Din PUC Screen @ 13.5-33.5"		0-4 4-9 9-14 14-19	Sand: silty, v.f. to v.coarse grained; sed brown; noist to 2 feet then dry Sand: silty, v.f. to v.coarse grained; lt brown; slightly noist Sand: silty, v.f. to v.coarse grained; lt brown; slightly noist 14-16 Sand: silty, v.f. to v.coarse grained; lt brown; slightly noist 16-19 Sand: clayey, v.f. to v.coarse grained; ned brown; noist; w/ ninor tan clayey sand noduals 19-21.5 Sand: clayey, v.f. to v.coarse grained; ned brown; noist; 21.5-24 Sand: clayey, v.f. to v.coarse grained; ned brown; noist; nore clay than above interval; saturated at 24 feet						

Page No.: 182

Project/Task No's.: 370 6.01.01 Borehole / Well No. : 301581 Date Started : 1/20/89 Date Completed : 11/20/86 Sample Well Subsurface Information Construction information Depth Below Ground Surface (ft.) Blow Count/ Feed Pressure Sample Type Material Description Well Schematic Borehole Schematic Sample Depth/% Recovery 10.8E BLOCKED # 10-20 Sand 24-29 upper 2.5 sand: clayey, v.f. to v.coarse grained; sed brown; saturated C.OR" Slot lower 1.5 claystone: sandy, v.f. to v. -2" Dia PUC coarse grained; and brown to Screen dk ereen; moist; highly wind: 100% friable; blocky structure Threaded bottom plug Deaver fa. at 27 feet 29-33.5 29-32.5 claystone; sandy, v.f. to v. coarse grained; and brown to dk green; moist to saturated; noderately wild; noderately fractured; friable; bard 32.5-33.5 claystone: sandy, v.f. to v. coarse grained; and brown to greenish orange; moist to dry; anderately uthd; anderately fractured; friable; hard

Page No.: 2 of 2

Во	reho	le/X	Vell N	lo. : *	01582	Proj	ect/Task	No's.: 2706.01.91
					11/20/89		Date Co	mpleted : <u>"/2c/84</u>
Dril	ling li	nspe	ctor :	_Cra	19 Allen		<i>L</i> e	viewed amB 1-9-900
				Asr				1-9-90
Sun	veyed				Surve	eyed		
Loca	ation:	ΝŹ	77474	7.729 72.498	Eleva		GS <u>5253, 29</u>	
							oc <u>5255.0</u>	
Tota	I Depth	Drille	d:	18./ h · 12.6	ft. Drillin	g Type	: Hellon 5	Tem Huger
Stat	ic wate	, LGV	oi Depti	Beku	TOC, 11-28-89			
	Sam	ple			Well		Subeur	ace Information
	nform		1	Cor	nstruction		Jubauri	ace information
Depth Below Ground Surface (ft.)	Blow Count/ Feed Pressure	Sample Type	Sample Depth/% Recovery	Well Schematic	Material Description	Borehole Schematic		Lithologic and Hydrologic Description
-							Professional grows has transport as	
_					-E" Din Protective			
					Top Cap		•	e i e coma e e companio de la compa
-				3	Concrete Padi	nicii		Ground Surface
-			70		Cenent grout -2" Din Puc Casing Bentohite	==	0-4 0-0.6	topsoil; sandy; dry; grass and -
-			100%	0.44	Bentohite	= ,=		roots
-	ò	. 7		A			0.6-4	sand: clayer, silty, v.f. to v.coarse grained; ned brown;
-5		7.KG	20		\$10-20 Sand	=		dry
		22	100%				4-9	sand: clayey, v.f. to v.coarse
-		MA						grained; ned brown; noist to
-10-		4.3				יוורוייווו		tan clayey sand noduals -
·		3	- 70	P				partially saturated at B'
-	4	500	75%		O.C.2" 5/6† 2" Dia PVC		9-14	claystone: sandy, v.f. to
	1	Ma			screen @			eoist; uthe; blacky
_15.		SUDDITIONS			3.7-18.7		14-10.7	grained; ned brown; noist to partially saturated; n/ minor tan clayey sand noduals - partially saturated at 8' claystone; sandy, v.f. to coarse grained; ned brown; noist; uthd; blocky claystone; sandy, v.f. to v. coarse grained; ned brown to orange; noist; highly uthd; friable; borders on a clayey sandstone
•		5 7	100%					coarse grained; ned brown to
-							•	orange; noist; highly wthd; friable; borders on a clayey
-								sandstone
-20								<u>-</u> -
					· · · · · · · · · · · · · · · · · · ·			
-					. U			· -
_ 						,		

Page No.: /of/

Во	rehol	e/V	Vell N	Jo. : 7	01583	Proj	ect/	Tas	k No's.: <u>3706.01.01</u>	_
				ted: _	11/17/89				mpleted: 11/12/89	_
Dril	lina lı	nspe	ctor :	Cros	a Allen				Reviewed amb 1-9-90	
	_	_		Asi	2 16				7000	
		, Ollip	ally .							
	veyed	N 1	7106	3.145	Surve	eyed tion : (00 / 7			
Loca	ation :			21.334		tion: (oc 52	57.34	/ nt.	
T				24						
Stat	ic Wate	r Lev	el Depti	h: 15.4	π. Drillin 55 ft.	g lype	_1/0	MCW	Stem Luger	-
0.0.			J. 20p.	,	DC 11-28-89					_
	Sam	ple			Well		6		face information	
lt	nform	ation	1	Co	nstruction		- Su	ıbsur	face information	
£ 5	<u>\$</u>	ed,		65	2				, 5	
Ground Surface (ft.)	our	Sample Type	3%	Well Schematic	Material Description	Borehole Schematic			gic ogic otio	
ounc fac	D M	Jdu	npt oth	" ner	teri	ehc			Lithologic and Yydrologi Descriptic	
Ground Surface (ft.)	Blow Count. Feed Pressure	Saı	Sample Depth/% Recovery	Sci	Ma De:	Boi			Lithologic and Hydrologic Description	
					E" Dra Protective					\exists
					Top (ap				The state of the s	ヸ
			•		Convet pod			*	The second secon	
					Cement.				- Ground Surface	==
			100%	1//	6rest		0-4		sand: silty, v.f. to med	\exists
			9		2" Dra Puc				grained; dark brown; slightly moist	크
				1///	easing					\exists
_ 3			۷.		(451716	7	4-9		<pre>sand: silty, v.f. to coarse grained; aed brown; slightly</pre>	コ
_		73	80.3						noist	日
		N.6	50 % (Ompre Non	1044	P. 1 -J		9-14	9-12	sand; silty, v.f. to coarse	4
		177		1 44 40	-Bentonite	==		-	grained; med brown; slightly	긬
-10		100	\ \ \	1,		->		12-14	moist same; clayey, v.f. to coarse	一目
_		191	200 (Ongress	1-4	170-20 Sand			• •	grained; reddish brown; moist;	3
-	A	5	(0)			=			very stiff; w/tam modmals of clayey same	
ا ۔ , ۔ ا		100		V-						\exists
15		CONTINUOUS IN			0.02" Slot	3	14-19		sand: clayey, v.f. to coarse	
_	_	MY	1000/		0.02" Slot 2" Dra PUC				grained; reddish brown; moist; to slightly saturated; very	3
-		203	2		Screen @				stiff; w/tam moduals of	
			-		14.0-24.0'				clayey sand; saturated at lower portion	극
_20				 	- '					=
			100%	国			19-24		<pre>sand: clayey, v.f. to coarse grained; ned to reddish brown;</pre>	
_			9)		7) 1/14	<u> </u>			saturated; stiff	
					Threaded bottom					
25	L		لــــــا		Pita		L.,			

Page No.: /cf/

Boreho	le/Y	Vell N	ار اور: بارا	02595	Proj	ect/Task No's.: 3706.01.01			
	Dat	e Star	ted: _	1/16/89	Date Completed : 11/17/84				
Drilling l			0	g Allen cu Drilling		Replaced w/ Well 02598 Reviewed amb 1-9-90			
Surveyed Location :	E 2	18230	3.482	Surve Eleva	tion : (GS <u>\$252-/</u> ft. oc <u>WA</u> ft.			
Total Depth Static Wate	Drille er Lev	el Depti	h : <u>_26</u> .	95 ft. Drillin 600001 11-30-8		: Hollen Stein Anger			
Sam Inform		1		Well nstruction		Subsurface Information			
Depth Below Ground Surface (ft.) Blow Count/ Feed Pressure	Sample Type	Sample Depth/% Recovery	Well Schematic	Material Description	Borehole Schematic	Lithologic and Hydrologic Description			
					A mo:	Ground Surface			
	19XING BFRREL	100% 100%	ED			0-4 0-0.8 topsoil; sandy; dk brown; ooist 0.8-4 sand; silty, v.f. to coarse qraimed; med brown to orange; dry to moist 4-9 sand; silty, v.f. to coarse qraimed; lt brown to orange; dry 9-14 9-12.2 sand; silty, v.f. to coarse qraimed; lt brown to orange; dry 12.2-12.5 sand; clayey, v.f. to v.coarse			
	CONTINUES SAN	2	WELL ABANDONE			qrained; ned brown; slightly neist 12.5-14			
	-	808				v.coarse grained; ned brown; dry to slightly noist; highly uthd; friable 1.7-2.4' claystone; lt gray to blue; dry; blocky 2.4-4.0' siltstone; sandy, v.f. to coarse grained; ned brown; binbly uthd; friable			

wild; friable No.: 1 1 2

Project/Task No's.: 3706.01.01 Borehole/Well No.: #02595 Date Completed: 11/17/89
ABAINDOINED 11/30/ Date Started : 1/16 /89 Sample Well Subsurface Information Construction Information Depth Below Ground Surface (ft.) Blow Count/ Feed Pressure Sample Type Material Description Hydrologic Description Well Schematic Borehole Schematic Sample Depth/% Recovery 24-29 24-28.1 siltstone; sandy, v.f. to v. coarse grained; and brown; emist; w/ minor clay and lithic fragments; highly othe; enderately fractured 28.1-29 siltstone: sandy, v.f. to fine grained; tan; dry to %00/ moist; w/ mimor clay; highly wild; moderately fractured 29-34 claystone; sandy; v.f. to v. 60% SAMME 5400 017 coarse grained; sed brown; saturated to moist; moderately fractured: friable: saturated is approx. 2" thick roses from 29-32.5' moist to dry 32.5-34' 34-39 claystone; sandy, v.f. to coarse grained; aed brown to orange; saturated; moderately fractured (horiz); hard; good water bearing zone

Page No.: 2 of 2

Borehole/Well No: # 025910 Project/Task No's.: 8048 / 37016.01.01

Drilling Inspector: Craig Allen Reviewed amb 1-9-90

Drilling Company: Arrow Drilling

Surveyed

Surveyed Location: N 176573.388

E 2182695 696

Surveyed

5248.55 Elevation: GS 5200 (4ft.

TOC 5250.08 ft.

Total Depth Drilled: 31.20 ft. Drilling Type: Hollow Stem Auger

Static Water Level Depth: 25.45 ft.

Sam	nlo		Below	TOC, 12-1-89	<u> </u>				
Sample Information			Well Construction			Subsurface Information			
Ground Surface (ft.) Blow Count/ Feed Pressure			Borehole Schematic	Lithologic and Hydrologic Description					
-5 - K	indous Sampling Bample Barrel	70% 100% Compaction		-6"Dia Protective Casing Top.ofcasing cap -Concrete Pad -2"Dia. PVC Casing - Cement Grout		0-4 4-9 9-14	Ground Surface Sand: silty, v.f. to v.coarse grained; it brown to orange; dry Sand: silty, v.f. to v.coarse grained; it brown to orange; dry Sand: silty, v.f. to v.coarse grained; it brown to orange; dry -18.5 Sand: silty, v.f. to coarse grained; it to ned brown; slightly exist		
20	Continu	75% 1008 70 Composition Composition		-#10-20 sand -2"012 0.02" slot PVC screen @21.2-31-2'		19-24 19-	-18.5 sand; silty, v.f. to coarse grained; lt to med brown; slightly exist .5-19 sand; clayey, v.f. to med grained; med brown; slightly maist -23 sand; silty; v.f. to coarse grained; lt to med brown; slightly maist -24 clay; sandy; v.f. to med grained; med brown; moist		

Page No.: 142

Borehole/Well No.: # 02596 Project/Task No's.: 8048/3706.01.CI

Date Started : 11/15/89 Date Completed : 11/16/89

	Sam				Well	Subsurface Information					
l:	nform		n	Co	nstruction		Substitute information				
Depth Below Ground Surface (ft.)	Blow Count/ Feed Pressure	Sample Type	Sample Depth/% Recovery	Well Schematic	Material Description	Borehole Schematic	Lithologic and Hydrologic Description				
30		Continuous Sampling	100% 100%	M. melan millingill	-2" Dia U.02" Slot -PVC Screen -#10-20 sand -Threaded Bettom Plug		24-29 24-25 sand: clayey, v.f. to coarse grained; it brown; saturated 25-29 claystone; ned brown to dk green; noist to saturated along fracture planes; friable 29-31.2 sandstone; silty; v.f. to coarse grained; ned brown to lt orange; very noist;				
							saturated at 30.8'; moderately uthd; highly fractured; friable - penetration refusal				
			1 1				I ⊣				
-							- <u>-</u>				

Page No. : 2,42

Во	rehol	e/V	Vell N) lo. : ^E	02597	Proj	ect/	Task	No's.: 3706-01.01	/
		Dat	e Star	ted: _	11/15/89		Dat	e Con	npleted : <u>"/15/65</u>	
Dril	ling Ir	18pe	ctor :	_Cr	acy Allen		Re	viewed amB 1-9-90		
Dril	lina C	omp	anv :	A	row Drilling					
	reyed	, ,			Surve	aved.				
Loca	ation:	N 2	76805	77.422			GS 52	32.30	<u>2</u> ft.	
						tion : (
Tota	l Depth	Drille	ed :/	185	ft. Drillin	g Type	: #	llev	Stem Auger	
Stat	ic Wate	r Lev	el Depti		<u>5</u>					
	Sam	nla		Selou	70C 11-28-89 Well					
lı	nform		1	Col	nstruction		Su	bsurf	ace Information	
3 .	1	be		4.					2	
Depth Below Ground Surface (ft.)	Blow Count/ Feed Pressure	Sample Type	2%	Well Schematic	Material Description	Borehole Schematic			Lithologic and Hydrologic Description	
pth ounc rfac	ed ed sssu	Jdw	Sample Depth/% Recovery	II hen	teri, scrij	rehc			ithologic and tydrologi Descripti	
Su	BIG Fe Pr	Sa	Sa De Re	We	Ma	Bo			Lithc and Hydr Desc	
										-
_	-				6" Dra Pretative					
					-top lap					_
_				Biran	Controle Paul	-			Ground Surface	
<u> </u>			20	W//	Cement -		0-4	0-1.9	silt; clayey; dk brown to	
			36	W//	-2" Dia Ric	是怎		1.7-4.0	black; moist; topsoil silt; sandy, v.f. to med	_
	-	7	-		Casing	墨			grained; med brown; dry to slightly moist	_
<u> </u>		46	10	2444	-Bentonite	謹	4-9	4-7.3		_
_		120	1000	200			4-1	4-7.3	silt: sandy. v.f. to v.coarse grained; med brown; slightly	
		23			\$10-20 Sand			7.3-9.0	emist same: silty; v.f. to v.coarse	
/c		45			0.02" s/ct				grained; It brown; slightly	
		SU	100%		-2" Dra PUC	异刻			aoist .	
_	7	400	2/		Screen @ 8.5-18.5°	至三	9-14	9-13.3	<pre>sand: silty; v.f. to v.coarse grained; it to med brown;</pre>	
	7	2/2			V	Z.A			slightly soist	_
/5	-	Cia				===		13.3-13.	<u>clay:</u> sandy; v.f. grained; it green to tan; noist	
_		3/	100%			益		13.5-14		
		03	7		2111				u/C 52 pebbles to 1/4" dia	
					Threacted		14-18.5	14-14.4	sand: silty, fine to v.coarse	_
— <i>20</i>				-	plus 1				grained; It to 4k brown; saturated; w/ 20% pebbles to	
_								14.4-17	1/8° dia clay: sandy, v.f. grained; med	-
			17		<u>stone:</u> sandy, v.f.grained	;			brewn; moist; blocky	
- 25				tan	to orange; dry		_	17-17.8	sand: f. to v.coarse grained; brown; saturated; 102 pebbles	
									te 1/4" dia Page No. :	^/

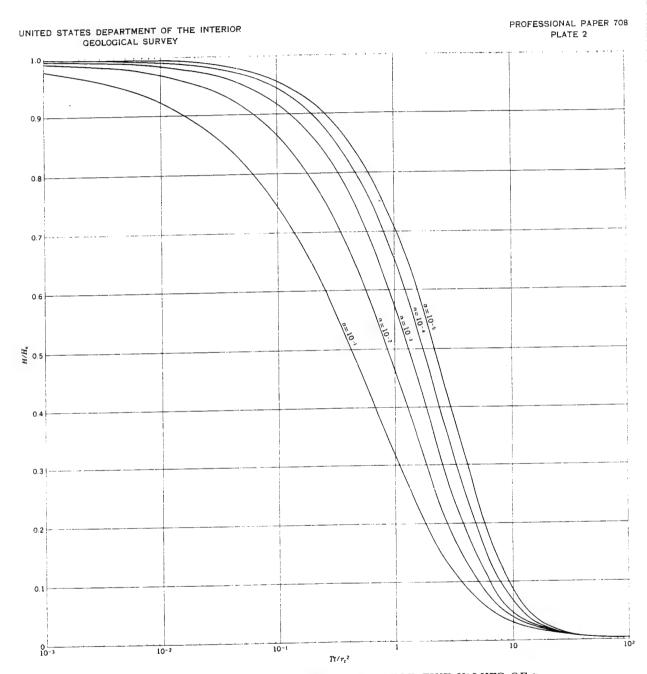
Во	reho	e/V	Vell N	jo. : C	32598	Proj	ect/Task No's.: 2706.0(.c/				
		Dat	e Star	ted: _	12/1/89	Date Completed: 12/1/64					
Dril	ling li	nspe	ctor :	-Crai	g Allen		Reviewed amB 1-9-90				
					ou Prilliss						
		, O.I.I.P	dily .								
Loca	reyed	N 1	76882	7.261	Surve Elevat	-	GS <u>5251.68</u> ft.				
LOC	20011.			2.705			oc <u>525327</u> ft.				
Tota	l Denth	Drille	ad ·	391	ft Drillin	a Tyne	: Hollow Stem Auger				
Stat	ic Wate	r Lev	el Depti	h : 28-/	<u>د</u> ft.	9 1960					
					ac 12-4-89						
	Sam				Well		Subsurface Information				
- 11	nform		1	Col	nstruction						
ft.)	nt/	Sample Type		ي	uc	Ü	. 20				
Ground Surface (ft.	Blow Count. Feed Pressure	101	Sample Depth/% Recovery	Well Schematic	Material Description	Borehole Schematic	Lithologic and Hydrologic Description				
Ground Ground Surface (ft.	per Mo	dw	petto	le ster	Material Descript	reh	hold d dro scr				
303	BI Fe PT	S	Sa	Sc	M; De	SC SC	De Hi				
							_				
	• "				E"Din Protestive						
					E"Din Piotative Casing Top rap		<u> </u>				
		-		322	concrete post		Ground Surface				
				1 1//			dround Surface				
				1 1/4	Cement		SER LOE OF LUENT =				
					Grout						
<u> </u>						15	<u> </u>				
		55			04 5 0	#02%:9¢					
-		2661		1///	-2" Da PVC Cabing	250					
		- C			("asing	η	<u> </u>				
		B				17	<u> </u>				
				- (//		CF					
		97				9					
_	7	W.C	A			406	<u>-</u>				
_15		20	2	-///		4	3				
		0/1		411	-Bentonite	12/4					
_	an and	1		804		ľ					
		3			10-20 Sanl						
_20							E				
	page a sur sur				0.02" Slot						
					Screen @		·				
					18.5-38.5						
_ 25					. 1010 0010		<u> </u>				

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Project/Task No's.: 3x6_0(c) Borehole/Well No. : #02598 Date Started : Date Completed: Sample Well Subsurface Information Information Construction Depth Below Ground Surface (ft.) Blow Count/ Feed Pressure Sample Type Material Description Well Schematic Borehole Schematic Sample Depth/% Recovery SEE LOG OF WELL -t10-20 SAND 0-02" S/c + -2" Dra Puc Green NA

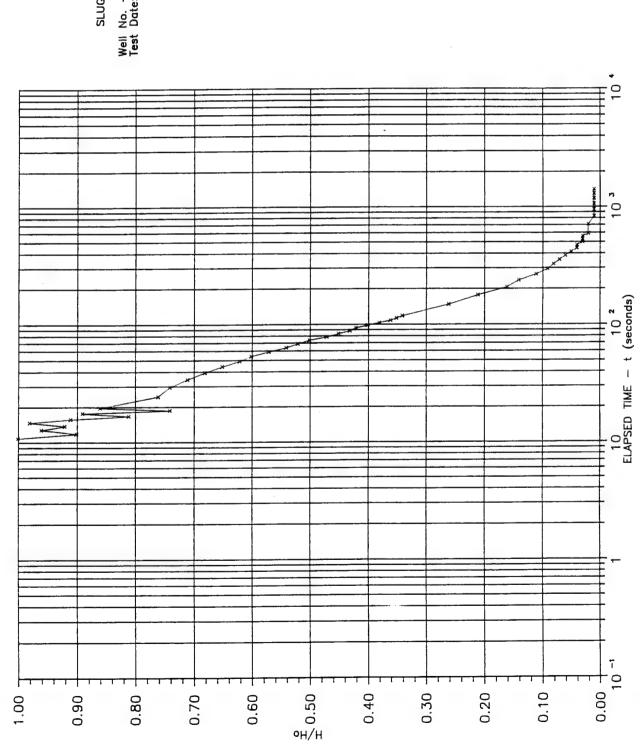
Page No. : 2042

APPENDIX D Hydraulic Properties Testing Data



TYPE CURVES FOR $H/H_{\rm o}$ VERSUS $Tt/r_{\rm c}{}^2$ FOR FIVE VALUES OF α

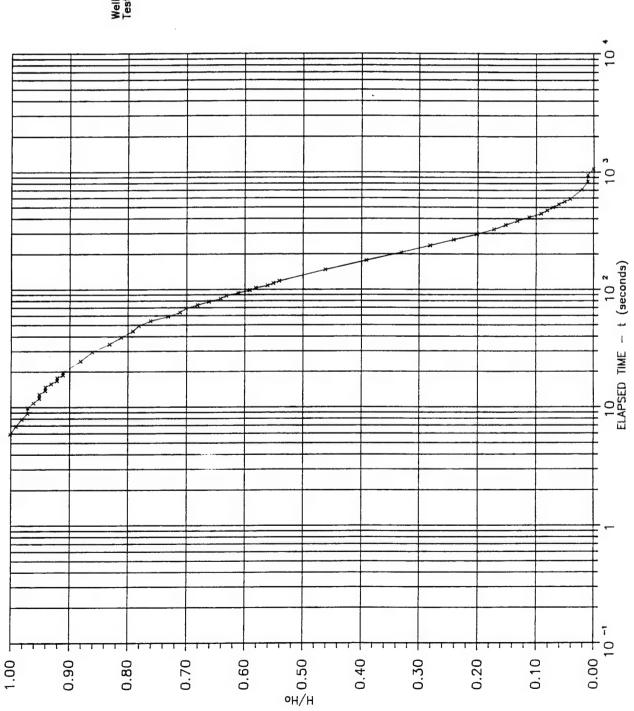
After Cooper, Bredehoeft, and Popadopulos (1967, table 1)

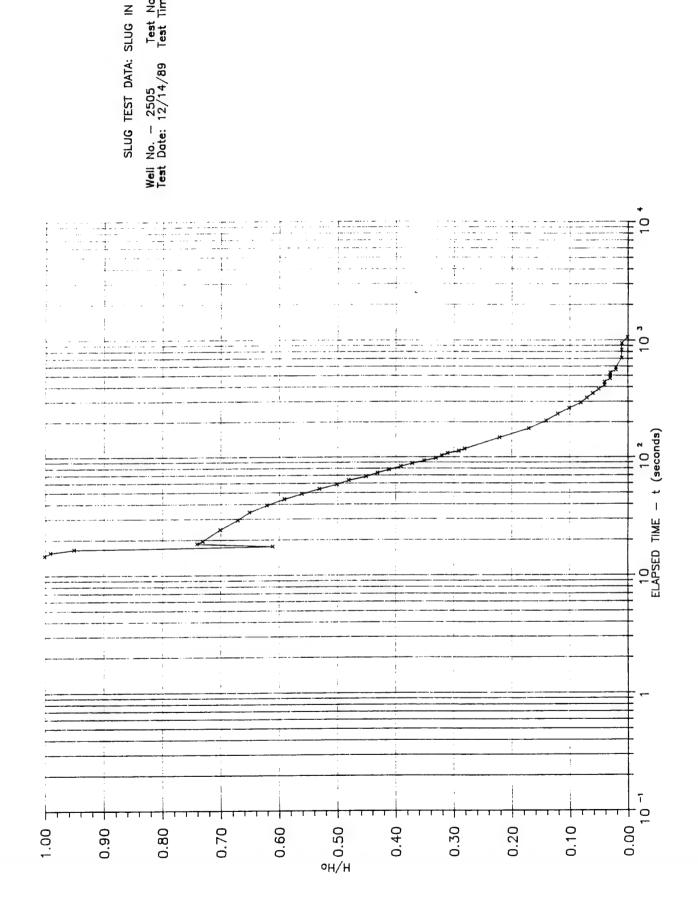


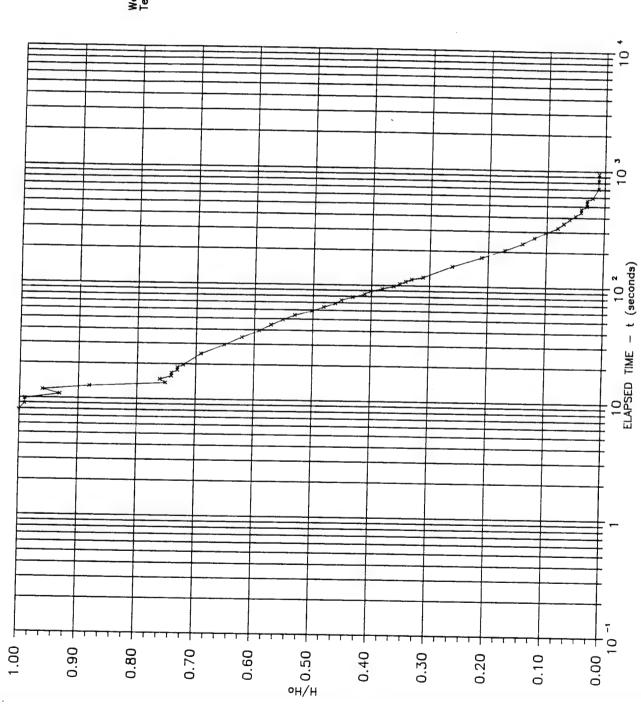
SLUG TEST DATA: SLUG IN

Well No. - 2505 Test No. - 0

Test Date: 12/14/89 Test Time: 8:23







SLUG TEST DATA: SLUG IN Well No. -2505 Test No. -2595 Test Time: 9:59

